

Computer PlayerTM

North America's bilingual computer information source Volume 4 Number 11

November 1995

Free

YOU'VE GOT A PC
NOW
WHAT?



UNLIMITED INTERNET

\$19.50

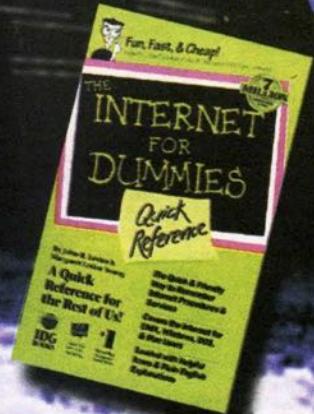
FREE
Web
Page



GET ON THE

INFO HIGHWAY NOW

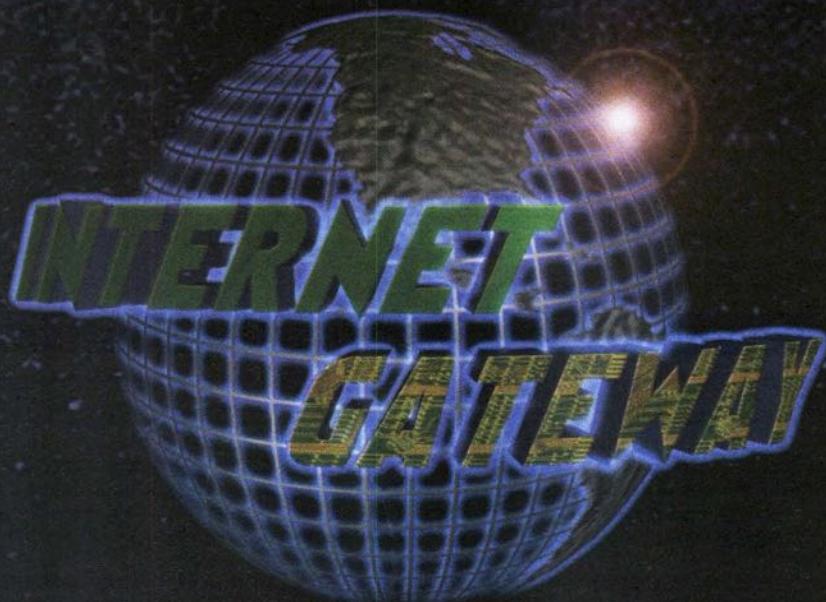
FREE BOOK!
ltd. Qty. W/ Sign Up



- NO Setup Fee**
- Direct Unlimited Access**
- No Hourly Charges**
- Free Access Software**
- Free Technical Support**
- Personal E-Mail Address**

654-6088

*some restrictions may apply



Internet Gateway Corp.



Need on site service,
Call us NOW!
We solve your problems!!

NU-ACE

COMPUTER PLUS

486 DX2-80 / DX4-100 AMD PCI
4 MB RAM exp. to 128 MB RAM
1.44 MB floppy drive, 256K cache
32 bit EIDE and floppy controller
2 serial / 1 parallel ports
Mini-size 13" case with 200 W P/S CSA
635 MB IDE mode 3 fast hard drive
101 key enhanced keyboard
14" Green SVGA N/I monitor
Trident 9440 64bit w/1MB Dram video card
Nu-ace 2 button mouse
\$1208 / 1268
Lease available

486 DX2-66 / DX4-100 INTEL PCI
4 MB RAM exp. to 128 MB RAM
1.44 MB floppy drive, 256K cache
32 bit EIDE and floppy controller
2 serial / 1 parallel ports
Mini-size 13" case with 200 W P/S CSA
635 MB IDE mode 3 fast hard drive
101 key enhanced keyboard
14" Green SVGA N/I monitor
Trident 9440 64bit w/1MB Dram video card
Nu-ace 2 button mouse
\$1298 / 1338
Lease available

Pentium 75 / 90 / 100 / 120
GIGABYTE motherboard, PCI
8MB RAM exp. to 192 MB
1.44MB floppy drive, 256 K cache
Built-in 32 bit EIDE and floppy controller
2x16550 UART serial, 1 bi-directional parallel
Mid-size 19" case with 200 W P/S CSA
850 MB IDE hard drive
101 enhanced keyboard
14" Green SVGA N/I monitor
Trident 9440 64bit w/1 MB Dram video card
\$1718 / 1838 / 1988 / 2248
Lease available

Professional Pentium 100/120/133
Acus/Acer Triton motherboard, PCI
16MB RAM exp. to 192 MB
1.44MB floppy drive, 256 K cache
Built-in 32 bit EIDE and floppy controller
2x16550 UART serial, 1 bi-directional parallel
Mid-size 19" case with 200 W P/S CSA
1.2 GB IDE hard drive
101 enhanced keyboard
15" FS L.R. SVGA monitor
Cirrus Logic 64bit w/2 MB Dram video card
\$2668 / 2938 / 3168
Lease available

Monthly Special

4MB SIMM 72 Pin
no parity SIMM **\$169.00**

Computer Problems ?
Upgrade 386's 486's, Monitor Repair,
Hard drive upgrades

Notebook

JetBook Symphony 486DX4-75

- Dual Scan Color • 250MB HD \$3295
- PCMCIA Type III • 8MB RAM
- Trackball mouse • Built in 16bit Sound Card
- Upgrade to Active Color \$1000
- Upgrade to Pentium 75 \$1100
- Upgrade to 16MB RAM \$775
- Upgrade to 514 MB Hard drive \$275

SMARTBOOK SoundPro Pentium 75

- Dual Scan Color • 8MB RAM \$3595
- 250MB Hard Drive • PCMCIA Type III
- Trackball mouse • Built in 16bit Sound Card
- Upgrade to Active Color \$1200
- Upgrade to Pentium 90 \$180
- Upgrade to 16MB RAM \$775
- Upgrade to 514 MB Hard drive \$275

Explorer Pentiumdia

- MM5000 DX2-66 \$2290
- 4MB • 250MB H/D • 16 bit sound card
- PCMCIA • Trackball
- Upgrade to dual scan \$690.00
- Upgrade to 540 MB H/D \$299.00
- Upgrade to Pen base Mono LCD \$210.00
- Upgrade to Pentium \$call

We support and service:

Trained
and tested
to provide
superior
NetWare
Support.

Complete IBM and Macintosh
network management:
E-mail & FAX gateways,
Remote Access, Backup,
Training ...

We're Keeping Up with Your Networking Needs

Multi Media World

Panasonic CD ROM 562 B	\$88	Sound Blaster 16	\$109
NEC 6XE Ext. SCSI CD ROM.....	\$799	MAD 16bit Sound Card ...	\$89
NEC 6XI Int. SCSI CD ROM.....	\$689	Phone Blaster 14.4	\$339
Mitsumi 4X IDE CD ROM	\$249	Pro Sonic SCSI 16Bit	\$129
Sony CDU-76E 4X EIDE CD ROM..	\$319	Garvis Ultra Sound Max	\$219
		Altec Lansing Speakers from	\$99

ASI CD-ROM Package

Mitsumi 4x speed CD
SB 16 bit sound card
M/S Encarta Package
2 shield speakers



\$399.00



BUSINESS HOURS:
MON-FRI 9:00-6:00
SAT: 11:00-5:00
FREE PARKING AT REAR

ALL SYSTEMS ARE CSA APPROVED.
2 YEAR PARTS & LABOUR WARRANTY.
ABOVE PRICES REFLECT 2% CASH DISCOUNT.
PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

Cover Story

32 PC Survival Guide
you've got a PC ... Now What?
by Alan Zisman

News

6 PC Pulse
45 Mac World

Software Reviews

20 Compton's Interactive Encyclopedia - 1996
by Alan Zisman

24 Reader Rabbit Just Keeps on Hopping
- Three new CD-ROM Disks
by David Anderson

40 MSWorks 95 - MS Office, Junior Edition
Review of Microsoft Works 4.0 for Win 95
by Alan Zisman

Hands On

23 Desktop Tips - Corel Photo-Paint 5.0
by Swee - Sim Tan

Solutions

28 Q & A: Windows 95 Basic

Interview

36 Good CD-ROM Producers
wear many hats
by Philip Hyans

Database

38 Database Developments
by John Hamm

Feature

48 Smart Shopping Tips
for the quasi computer literate
by Yves Millette

Internet

54 Effective Marketing in CyberSpace
by JD Miller

Networking

26 Lantastic 6.0
by Alan Zisman

Next Issue ...

Focus-On: Holiday Gift Ideas & Desktop Publishing

Distribution date: Nov. 17, 1995

Ad Closing date: Nov. 7, 1995

Please call for advertising information: (604) 739-8266

index of advertisers

COMPANY NAME	PHONE	PAGE	COMPANY NAME	PHONE	PAGE
10 MOUNTAIN ENT.	(604)525-4773	55	LOWEST CD-ROM	(604)263-2377	59
ABLE RENTALS	(604)521-6904	59	LYNX INTERNET	(604)331-2511	57
AE ELECTRONICS CORP.	(604)279-8867	11	MAC STATION	(604)666-0190	45
AGFA	(416)241-1110	39	MACKIE ENT.	(604)270-3386	18
ALOUETTE LASER INC.	(604)291-8442	55	MAPLE-OAK COMPUTER	(604)681-3770	26
ANOVATION/BCIT	(604)454-0388	19	MEDIA COMMUNICATIONS	(604)687-1268	59
ATECH COMPUTERS	(604)877-1812	29	MEGA TONER	(604)980-7197	58
ATECH COMPUTERS	(604)877-1863	29	MEMORY HOUSE	(604)821-1178	59
BMP PUBLISHING	(604)739-6588	44	MICROCONCEPT	(604)730-8183	8,9
BYTE & SOUND COMPUTER	(604)589-0388	14	MICRODRIVES	(604)244-3737	10
CC TECH	(604)876-7983	27	MICROSEA SYSTEMS	(604)273-9233	41
CDIS	(604)298-5400	32	MIND LINK	(604)668-5000	54
CE OUTLET	(604)278-2633	20	MINITRONICS	(604)278-0783	59
CLOVERDALE RACEWAY	(604)576-9141	43	MORTIMER ONLINE	(604)294-2995	55
CODY'S	(604)464-5515	59	MULTIMANIA	(800)689-3565	59
COMPUCOM 2000	(604)436-2333	35	MYCOM COMPUTER	(604)739-2827	18
COMPUCAN	(604)872-6066	28,61	N&K COMPUTERS	(604)325-9258	31
COMPULINK SYSTEMS	(604)657-4919	60	NANTRON SYSTEMS	(604)253-1588	38
COMPUTER CLEARANCE	(604)879-7776	22	NPSNET	(604)272-2624	57
COMTEX MICROSYSTEMS	(604)273-8088	15	NU-AGE COMPUTERS PLUS	(604)739-0883	3
CREATIVE COMPUTER	(604)318-0382	33	PC AUCTION	(604)241-8555	51
CRESCENT CITY SOFTWARE	(604)739-1714	45	PC CONNECTIONS	(604)270-4883	10
DATAHOME	(604)278-3584	25	PC TOP	(604)879-3232	21
DATAWORLD COMPUTERS	(604)323-0768	17	PHIL KUSHNIR	(604)891-8812	59
DC COMPUTER	(604)942-2830	40	POWERSOFT	(604)582-7488	27
DERAN COMPUTER	(604)231-9630	7	PRIMEX COMPUTERS	(604)438-8900	25
DISCOUNT SOFTWARE CLUB	(604)821-1108	10	PROTRON COMPUTER	(604)432-1177	59
DRAKE	(604)669-8789	41	QUANTUM TECHNOLOGIES	(604)244-5952	62
ECL	(604)266-1124	59	READY COMPUTER	(604)270-7618	36
ENERMAX	(604)543-9389	38	ROMWARE	1-800-944-3369	25
EPSON	1-800-289-3776	49	RPC ELECTRONIC	(604)255-1192	24
EROTICA EAST	011 852172 94 9194 58		SAMCO PRINTERS	(604)683-6991	52
FOCUS	(604)273-8086	23	SCEPTRE TECHNOLOGIES	(818)369-3698	16,50
FUSION ELEC.	(604)688-9819	17	SINOSOFT	(604)874-0227	60
GAMES LOVERS	(604)270-7898	21	SOFTBANK COMDEX	(617)449-6600	63
GARY DUNN COMPUTER			SPARKLE	(604)435-2338	59
& TECH LAW	(604)739-7011	33	STRONG COMPUTERS	(604)739-0438	22
GLOBAL ONLINE	(604)978-6904	59	SUPER-BYTE	(604)463-8733	37
GO! ONLINE COMMUNICATIONS	(604)540-0271	53	SYSTEM PRO	(604)583-9977	24
HOLLY COMPUTERS	(604)279-2580	47	TANGENT COMPUTERS	(604)737-9918	27
IBC COMPUTER	(604)876-8855	5	TOM LEE MUSIC	(604)685-8471	36
ICI INFOWAVE	(604)273-1368	30	TRICERA COMPUTER	(604)733-5702	6
IMPAQ	1-800-663-9272	28	UNIVELL MICROSYSTEMS	(604)276-9986	4
INFO MEDIA	(604)739-5889	46	V-COM COMPUTER	(604)437-8818	12
INTERACTION CD	(604)987-3472	37	VAN. INTERNET PUBLISHING	(604)924-0750	56
INTERNET DIRECT	(604)488-1900	64	VANCOUVER FILM SCHOOL	(604)685-5808	34
INTERNET GATEWAY	(604)654-6088	2	VANCOUVER WEBPAGE	(604)270-8285	57
INTERTECH	(604)872-7337	23	VARSITY COMPUTERS	(604)222-2326	31
IPC	1-800-567-7413	13	WARREN DENNY	(604)737-2133	59
ISO-SOFT TECHNOLOGY	(604)879-1817	48	WEB LAB	(604)730-0021	57
ITEX	(604)521-7911	42	WISECOM	(604)327-8567	6
JCB MARKETING	(604)980-7197	40	ZAD-ALL-WIN WORKSHOP	(604)436-0333	46
LAPRO MARKETING	(604)244-7798	7	ZAD-DATA SYSTEMS	(604)473-9331	26
LINOPLUS	(604)879-8603	45			

Pentium P5-75

Intel P-75 CPU
256K Cache
8MB RAM 72pin Memory
1.44MB Floppy Drive
850MB IDE Hard Drive
PCI Video Card 1MB
14" Sceptre NI/LR Monitor
101 Keyboard
3-Button Mouse
PANASONIC 4xCD ROM
SoundBlaster Sound Card
CD Software & Speakers
GVC 14.4 FAX Modem
3-yrs Warranty

\$2195.00

Pentium Motherboard

- Supports 75/90/100/120/133 MHz
- Intel® Triton Chipset
- 4 PCI Plug in Play Slots
- Dual PCI IDE Controller
- Fast I/O
- Flash AMI WinBIOS™
- Energy Star Ally

OKIDATA
400E
LASER PRINTER
\$465.00

• Prices subject to change without notice.
• Due to quantity loss

We also offer a wide range of power supplies including green features:

Green



SCEPTRE®

3 YR
WARRANTY



Western Canada's
1 distributor.

Computer Parts Centre

Mail order and upgrades are welcome!

AMD DX4-100 System

- * Gigabyte PCI AMD-DX4-100 System
- * 256K Cache Motherboard
- * 4 MB 72Pin SIMM
- * 1.44MB High Density Floppy Drive
- * Western Digital 850MB Hard Drive
- * PCI Enhanced control W/fast S.Port
- * PCI IMB SVGA Card (exp. 2MB)
- * 14" NI 1024*768 SVGA LR Monitor
- * Sejinc 101 Enhanced Keyboard
- * Logitech MouseMan w/ pad
- * CPU Heatsink & Cooling Fan

\$1,299.00

Intel Pentium PCI Systems

- * 256K Cache Motherboard
- * 8 MegaByte 72Pin SIMMs
- * 1.44MB High Density Floppy Drive
- * Western Digital 850MB Hard Drive
- * PCI EIDE Controller 16550 2S/1P
- * ATI or Diamond PCI 64bit
- 1MB SVGA Card, (exp. 2MB)
- * 15" NI 1280*1024 SVGA LR Monitor
- * Fujitsu 101 Enhanced Keyboard
- * Logitech MouseMan w/Pad
- * CPU Heatsink & Cooling Fan

P - 75	\$1945
P - 90	\$2049
P - 100	\$2149
P - 120	\$2299
P - 133	\$2549



Memory, CPU & Motherboards

(Build in EIDE on PCI Motherboard)

486 VL-VESA	\$155
GIGABYTE 486 25-100 PCI	\$189
Intel Triton Pentium 75-150	\$325
1MB 30 Pin	\$55
4MB 72 Pin	\$175
8MB 72 Pin	\$365
16MB 72 Pin	Call
EDO RAM	Call

Please call for updated CPU pricing



Multimedia

Teac 4X CD-ROM Drive AT Type	\$205
Teac 6X CD-ROM Drive	\$375
Panasonic 4x CD-ROM Drive	\$205
Toshiba 4X CD-ROM Drive IDE	\$220
Toshiba 4X CD-ROM Drive SCSI	\$469
Sound Blaster 16 (OEM)	\$105
Pro-Audio Studio 16 SCSI	\$175
Logitech SoundMan 16 WAVE	\$185
Sound Blaster 32AWE Value	\$230
Sound Blaster AWE-32	\$369
120W Speaker W/built-in Adapter, vol. control	\$99
70W Speaker W/AC-DC Adapter, vol. control	\$79
4W Speaker	\$9
40W speaker W/built-in Adaptor/vol.control	\$39
Microsoft Encarta95 4CDs	\$95



I/O Controller Cards

VL-VESA Enhanced IDE 2s/1p/1g	\$35
Adaptec VL-SCSI 2842 Kit	\$299
Adaptec PCI-SCSI 2940	\$315
Adaptec PCI-SCSI 2940 Kit	\$355
Adaptec 2940 Wide SCSI	\$435



Tape Backup

Colorado DJ-35 Jumbo 350MB	\$205
IOMEGA Zip Drive External	\$289



Fax Modems

Smart link 14.4	Int.	\$69
Smart link 28.8	Int.	\$175
USR Sportster 14.4	Int.	\$135
USR Sportster 14.4	Ext.	\$165
Sportster 28.8 V.34	Int.	\$259
Sportster 28.8 V.34	Ext.	\$289



Cases & Power Supplies

13" Mini Tower 200 Watts	\$65
15" Mini Tower 200 Watts	\$75
19" Mid Tower 200 Watts	\$85
24" Full Tower 230 Watts	\$120
19" Colour Case 200 Watts	\$125

Lifetime warranty on power supply

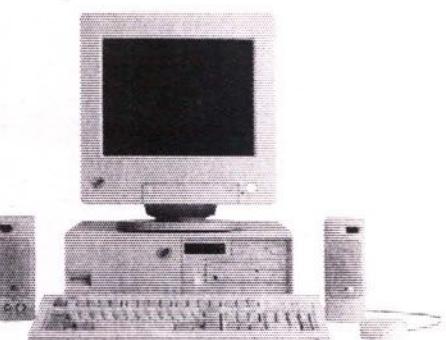


Printers

Brother HL-641 512K 6PPM	\$569
Brother HL-660 2MB 6PPM	\$799
Fujitsu 8000 1MB 8PPM	\$799
Raven 2405 HUSH 24Pin	\$239
Canon BJC-4000 Bubble Jet	\$469
Canon BJ-100 Bubble Jet	\$289
Brother HL-1260 12PPM	\$1599



IBM®
Authorized dealer



Call for current prices

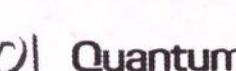
IBM is registered trade-marks of International Business Machines Corporation.

3243 Main Street (at 16th)
Vancouver, B.C.
V5V 3M6

Phone: (604) 876-8855
Fax: (604) 876-8779
Tech: (604) 876-8157

Store Hours:
Mon-Fr.: 9:30-6:30
Sat.: 11:00-6:00

IBC Computers



WISECOM GROUP
YOUR COMPUTER SPECIALIST

Hardware-Software-Upgrading-Networking-Programming-Consulting-Repairing

BERRY Computer BPC586-1133Mhz	\$2,358
BERRY Computer BPC586-1120Mhz	\$2,148
BERRY Computer BPC586-1100Mhz	\$1,868
BERRY Computer BPC586-190Mhz	\$1,698
BERRY Computer BPC586-175Mhz	\$1,628

2 Year Parts & Labour

BERRY Computer BPC486-a120Mhz	\$1,258
BERRY Computer BPC486-a100Mhz	\$1,169
BERRY Computer BPC486-a80Mhz	\$1,128
BERRY Computer BPC486-a66Mhz	\$1,119

2 Year Parts & Labour

Printers/Modem ► **Brother, Canon**
Hard Drive ► **WD, Seagate ..**
Upgrading ► **486, Pentium ..**
Repairing ► **Computer ...**
Memory RAM ► **30pin, 72pin**
Artwork Designs

800 NoteBooks 486 NOTEBOOKS DRIVERS & BOOKS

JETBOOK Symphony
SCEPTRE SoundX S1000

LOW PRICE

WISECOM TEL: (604) 327-8567 FAX: (604) 327-8217 (NEAR FRASER ST. & 41-43 AVE)
 Business Hour: Mon-Fri 10:00am-7:00pm
 Sat 11:00am-6:00pm
 Sun & Holidays CLOSED

Tricera Computer

203 1836 West 5th Ave at Burrard 733-5702



EPSON ES1200C SCANNER Sale Priced

Bring in your own test photograph and we will show you all the steps from scan to final edit.

600 x 1200 DPI Optical
Full Adobe Photoshop 3.0
Kai's Power Tools
Editors' Choice

\$2600 Value



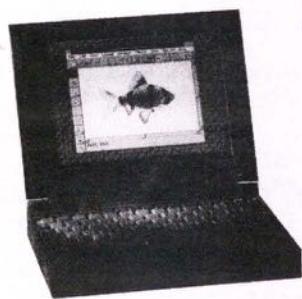
EPSON ActionNote 650C

\$2599

486DX2/50
4 MB RAM
PCMCIA Type III
260MB Hard Drive
10.3" Color Screen
32-bit Local Bus Video
Built-in 16mm trackball

Monochrome ActionNote650 - \$1959

EPSON Warranty Service - Supplies - Parts
"EPSON is a registered trademark of Seiko EPSON Corporation"



NexGen Unveils New Microprocessor

NexGen Inc. has released details about its planned sixth generation x86 microprocessor line.

The chip maker, based in Milpitas, California, says its Nx686 CPU offers up to twice the performance of Intel's Pentium Pro on 16-bit applications and up to 33 percent higher performance on 32-bit code.

NexGen notes that the Nx686 is an x86-compatible superscalar processor with approximately six million transistors. The initial version will run at 180MHz.

The chip features a RISC architecture that decodes multiple instructions per clock cycle into seven execution units: two integer execution, one floating point, one multimedia, one memory load, one memory store, and one branch execution. On-chip caches consist of a 16K instruction cache and a 32K data cache.

NexGen says the chip's die size is projected to be smaller than Intel's announced die size for the Pentium Pro.

The Nx686 is scheduled to become available at about the same time as the Pentium Pro. Initial Pentium Pro shipments are set to begin later this year, with volume shipments slated to begin in 1996.

Intel Denies Pentium Pro Delay

Intel Corp. CEO Andrew Grove says the company's next generation microprocessor, the Pentium Pro, will go on sale as originally planned in the fourth quarter, reports the Reuter news service.

"We are right on target for the Pentium Pro," says Grove, responding to a recent PC Week report that claimed Intel would delay volume shipments of the new chip to PC manufacturers until 1996 while work on a new, lower-cost CPU was completed.

An Intel spokeswoman confirmed to Reuters that some versions of the chip—formerly code-named P6—were being reviewed and may be delayed, but that the overall product launch remained on schedule.

The Pentium Pro has been criticized by some industry trade publications for reportedly disappointing performance gains. But Grove says the new chip will be twice as fast as the Pentium processor.

10 more in 1996, the wire service adds. Now Custom Clothing becomes a wholly-owned subsidiary of Levi Strauss, remaining in Newton, Massachusetts, and retaining its 11 employees.

Epson Cuts Scanner Price

Epson America Inc. has cut the price of its Personal Document Station desktop scanner from \$599 to \$449.

The company, based in Torrance, California, says the price reduction is designed to make the product more widely available in the retail channel. The PC-compatible monochrome unit offers a 300 dpi resolution and text and image scanning. Image and optical character recognition (OCR) software is bundled with the sheet-fed device. The scanner also provides file management capabilities and direct e-mail hooks.

Firm Simplifies I-NET Addresses

Branch Internet Services Inc. is hoping to make long, unintelligible Internet addresses a thing of the past.

Branch, based in Ann Arbor, Michigan, is offering a new service that allows an Internet site to use a shortened, more easily memorized address.

Branch's Internet Image Service allows companies and individuals to appoint their own registered domain names to their World Wide Web sites or e-mail accounts, regardless of their service provider. Large or small Web sites can use the Branch domain services whether hosted by Branch or not.

Branch can also simplify AOL, CompuServe or Prodigy e-mail addresses by forwarding mail using the registered domain name to an existing account.

"In the past, only Web sites hosted on their own servers could use separate domain names," says Jon Zeeff, president of Branch Internet Services. "This meant that companies that could not afford the tens of thousands of dollars to set up their own servers had to host sites on existing servers using long, difficult to remember names."

Service prices start at US\$40 per month.

Internet World Circulation Soars

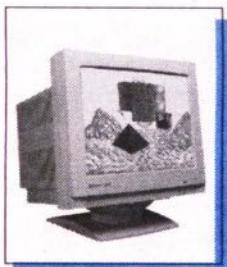
Mecklermedia Corp. reports that the circulation of its flagship Internet World magazine climbed 87 percent in the first six months of 1995.

The company, based in Westport, Connecticut, says the publication's audited paid circulation rose from 110,856 in November/December 1994 to 207,846 in June 1995. It adds that qualified non-paid circulation brought the total up to 267,698.

"Internet World's growth continues to outpace even our own optimistic projections," says Alan Meckler, chairman and CEO of Mecklermedia. "Very few magazines in the history of the computer magazine industry have been able to post such large percentage gains from period to period. To put it in perspective, Internet World is growing faster than PC Magazine did during its launch in the early 80s."

YOUR ONE-STOP SOURCE!

Incredible Selection



SCEPTRE

High Resolution Monitors
Featuring 14", 15", 17", and 21"

- 3 Yr Warranty
- Low Radiation
- Flat screen
- Ultra-Sharp



SCEPTRE

Multimedia Notebooks
486 66/100 or Pentium 75/90



SCEPTRE

LCD Panel
DualScan & Active Matrix LCDs

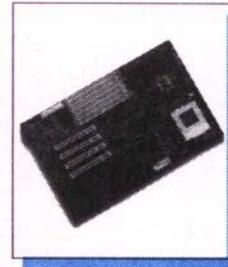
- SoundBlaster
- Modular
- NiMH Batt.
- Mono, Active, & DualScan



Acer

AcerOpen Systems
Pentium & 486 Systems

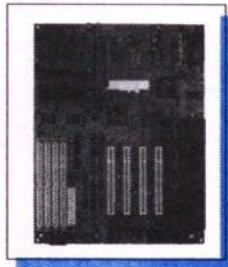
- Space Saving (1.5" deep)
- Portable & Tiny footprint
- No radiation
- PCI or Vesa interface
- Low power consumption



Acer

Motherboards
Pentium & 486 Motherboards

- Acer
- Leo (FIC)
- Amptron
- 72-pin & 30-pin SIMMs
- Workstations & Servers



ASUS

Pentium Motherboards
System Components

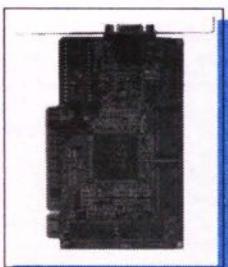
- IP54NP4 Dual Pentium
- EP54NP4 EISA Dual Pentium
- P55TP4XE, Pentium 75-133
- EDO & Pipeline Burst SRAM
- Plug 'n Play, Flash BIOS



TOSHIBA

Memory Modules
Premium Japanese & US RAM

- Toshiba
- Hitachi
- Digital, NPN
- NEC, OKI
- Texas Instruments



DIAMOND

Peripherals

- WD/Paradise, S3, Trident
- Cirrus Logic, ATI, Diamond
- Video with MPEG Playback
- 14.4 & 28.8 FaxModems
- Floppy Drives & Mice



KME

KME Cases & Power Supplies

- Minitower: 13"
- Tower: 15", 19", 21"
- Sever Tower: 26" & Dual
- CSA Power Supplies
- 200W, 230W, 250W, 300W



CREATIVE

Multimedia

- Creative Labs
- Turtle Beach
- Sony, Panasonic, Toshiba
- CD Titles & Bundles
- EVER Multimedia cases



WESTERN DIGITAL

Hard Drives

- Western Digital, Seagate
- Maxtor, Conner, Quantum
- IDE from 560MB to 1.6GB
- SCSI from 540MB to 9.0GB
- System & Notebook Drives



Proxcel

Keyboards & Mice

- Proxcel
- Focus
- Keytronic
- Chicony
- NMB

Proxcel

Proxcel Pentium/75	\$ 1898
Proxcel Pentium/90	2018
Proxcel Pentium/100	2138
Proxcel Pentium/120	2428
Proxcel Pentium/133	2568

Intel Inside

Proxcel Multimedia 486

Intel 486DX2/66	\$ 1898
AMD 486DX4/100	1898
Intel 486DX4/100	1968

Proxcel System Upgrades

DOS 6.22 & Windows 3.11	\$ 125
Microsoft Windows '95	135
4MB SIMM, 72-pin	188
8MB SIMM, 72-pin	358
16MB SIMM, 72-pin	658
Upgr 2x CD-ROM to 4x	100
Upgr 14.4 Modem to 28.8	100
Upgr 14" Sceptre to 15"	188
Upgr 15" Sceptre to 17"	398
Upgr 850MB to 1.2GB HDD	100

Distributors:

LAPRO Marketing
Unit 510, 3771 Jacombs Rd Richmond, BC
Tel (604) 244-7798 Fax (604) 244-7796

Deran Computer Ltd.
Tel (604) 231-9630 Fax (604) 231-9631

Quantum Technologies
Unit 125, 3751 Jacombs Rd Richmond, BC
Tel (604) 244-5952 Fax (604) 244-5953

Proxcel

Proxcel Multimedia 486

Intel 486DX2/66	\$ 1898
AMD 486DX4/100	1898
Intel 486DX4/100	1968

Proxcel System Upgrades

DOS 6.22 & Windows 3.11	\$ 125
Microsoft Windows '95	135
4MB SIMM, 72-pin	188
8MB SIMM, 72-pin	358
16MB SIMM, 72-pin	658
Upgr 2x CD-ROM to 4x	100
Upgr 14.4 Modem to 28.8	100
Upgr 14" Sceptre to 15"	188
Upgr 15" Sceptre to 17"	398
Upgr 850MB to 1.2GB HDD	100

Prices are subject to change without notice.
Corporate & Government Purchase Orders welcome.

Sceptre

Authorized Dealers

Quantum Technologies	Richmond	244-5952
Strider Computer	Surrey	543-4200
DPE	Downtown	683-7587
Mycom	Dunbar	739-2827
CE Computer	No. 3 Rd Richmond	278-2633
Maple Oak	Pender	681-3770
Microconcept	W Broadway	275-8918
Atech	Cambie	877-1812
Frontier	Vancouver West	739-8060
Sunday Computer	Maple Ridge	644-4655
Super Tek	Richmond	275-7337
Intertech	Vancouver	872-7337
Best Computer	New West	522-6768
MS Computech	Sardis	858-8337
Sky Dragon	Kingsway	879-3232
Stealth Computer	Richmond	241-0486
Meltronics	Selmon Arm	832-3288
Compusmith	North Delta	760-7283
Alliance	Coquitlam	936-8088
Prince George Computer	Prince George	561-1812
Nicer	Richmond	377-4982

Dealer:



Triton Station

Intel Pentium Processor with Fan (support up to 150MHz)
 GigaByte Triton chipset PCI/ISA Main Board w/256KB External Cache
 Plug & Play support, ZIF CPU Socket 7 + VRM for Future Intel CPU
 8MB-70ns Fast Page DRAM exp. to 128MB
 1.44MB Floppy Drive
 850MB Fast IDE Hard Drive (Mode 3)
 PCI Enhanced IDE Cont. w/ 2x16550 Serial, 1xBi-Directional Parallel
 Bus Mastering (DMA) Mode (22MB/s)
 PCI ATI Xpression 64-bit Windows Accelerator with 2MB DRAM
 Sceptre 15" Non-Int. Low Rad. SVGA Monitor
 Mid-Tower Case with CSA Power Supply
 101-keys Enhanced Keyboard
 2 Year Parts & Service Warranty

EDO MEMORY UPGRADABLE	
75 MHz	\$1,985
90 MHz	\$2,090
100MHz	\$2,130
120MHz	\$2,455
133MHz	\$2,595



pentium
PROCESSOR

Triton Station Plus

Intel Pentium Processor with Fan (support up to 133MHz)
 Triton chipset PCI/ISA Main Board w/256KB Pipeline Burst Cache
 8MB-70ns EDO Performance Enhanced DRAM exp. to 128MB
 1.44MB Floppy Drive
 850MB Fast IDE Hard Drive (Mode 3)
 PCI Enhanced IDE Cont. w/ 2x16550 Serial, 1xBi-Directional Parallel
 Support up to 4 IDE Hard Drive, Max. Transfer Rate up to 16MB/Sec
 Intergrated 8 x 32-bit buffer for PCI IDE Burst Transfers
 PCI ATI Xpression 64-bit Windows Accelerator with 2MB DRAM
 Sceptre 15" Non-Int. Low Rad. SVGA Monitor
 Mid-Tower Case with CSA Power Supply
 101-keys Enhanced Keyboard
 2 Year Parts & Service Warranty

EDO MEMORY INSTALLED	
75 MHz	\$2,110
90 MHz	\$2,215
100MHz	\$2,255
120MHz	\$2,580
133MHz	\$2,720

1.2GB

IDE Hard Drive Special !! **\$355**
ENHANCED 540MB \$228
IDE 850MB \$270 **HARD**
1.08GB \$330 **DRIVE**

Monthly Special !!

Creative Labs

14.4bps Internal Fax Modem with
 4 Exciting Games (Descent, Doom, Heretic & WarCraft SE)

\$ 69.00

PANASONIC

PANASONIC 2X Speed Internal
 CD ROM Drive

Limited Quantity !! **\$78.00**

ATI MACH 32

ATI MACH32 ISA SVGA Windows
 Accelerator w/ 1MB (16.7 million colors)

Limited Quantity !! **\$ 82.99**

CreativeLabs **\$388**

4X CD Value Kit Includes 11 Software Titles
 MS CD Bundle for \$88 With Purchase of 4X CD Kit.
 Encarta 95, Works 3.0, Money 3.0, Scenes,
 Golf, Dangerous Creatures, Entertainment 4

Power Station

Features:
 Intel Pentium CPU with Fan
Gigabyte Pentium PCI/ISA Main Board
 w/256KB External Cache (Max. 1MB)
 8MB-70ns Fast Page DRAM exp. to 192MB
 1.44MB Floppy Drive
 540MB Fast IDE Hard Drive (Mode 3)
 PCI Enhanced IDE Controller (Mode 3 & 4)
 PCI Cirrus Logic 5434 Windows Accelerator
 with 1MB DRAM(expandable to 2MB)
 2x16550 UART Serial, 1 Bi-Directional Parallel
 14" Non-Int Low Rad. SVGA Monitor .28mm dp
 Mid-Tower Case with 230W CSA Power Supply
 101-keys Enhanced Keyboard
 2 Year Parts & Service Warranty

**64Bit
VIDEO**

PENTIUM
75MHz \$1,650
90MHz \$1,755
100MHz \$1,795

Power Station Lite

Features:
Cyrix 5x86-100 Processor
Gigabyte PCI/ISA Main Board
 w/256KB External Cache (Max. 1MB)
 4MB-70ns Fast Page DRAM exp. to 192MB
 1.44MB Floppy Drive
 540MB Fast IDE Hard Drive (Mode 3)
 PCI Enhanced IDE Controller (Mode 3 & 4)
 PCI Trident 9440 Windows Accelerator
 with 1MB DRAM
 2x16550 UART Serial, 1 Bi-Directional Parallel
 14" Non-Int Low Rad. SVGA Monitor .28mm dp
 Mini-Tower Case with CSA Power Supply
 101-keys Enhanced Keyboard
 2 Year Parts & Service Warranty

CYRIX 5x86
As Low As **\$1,325**

Multimedia System

Features:
Gigabyte 486 VESA/ISA Main Board
 P24T upgradable w/256KB External Cache
 4MB-70ns Fast Page DRAM exp. to 128MB
 1.44MB Floppy Drive
 540MB Fast IDE Hard Drive(Enhanced Mode 3)
 VESA Local Bus FDD/Enhanced IDE Controller
 VESA Cirrus Logic 5429 Windows Accelerator
 with 1MB DRAM(expandable to 2MB)
 2 Serial, 1 Parallel & 1 Game Port
 14" Non-Int Low Rad SVGA Monitor .28mm dp
 Mid-Tower Case with 230W CSA Power Supply
 101-keys Enhanced Keyboard, Speakers
 Sound Blaster 16 Card,2x Speed CD-ROM
 2 Year Parts & Service Warranty

486 INTEL AMD
DX2-66 \$1,415 \$1,332
DX4-100 \$1,477 \$1,392
DX4-120 \$1,417

Impression

PCI Bus w/ FAST I/O & 64 BIT VIDEO
\$ 55 more

Features:
Gigabyte 486 VESA/ISA Main Board
 P24T upgradable w/256KB External Cache
 4MB-70ns Fast Page DRAM exp. to 128MB
 1.44MB Floppy Drive
 540MB Fast IDE Hard Drive(Enhanced Mode 3)
 VESA Local Bus FDD/Enhanced IDE Controller
 VESA Cirrus Logic 5429 Windows Accelerator
 with 1MB DRAM(expandable to 2MB)
 2 Serial, 1 Parallel & 1 Game Port
 14" Non-Int Low Rad. SVGA Monitor .28mm dp
 Mini-Tower Case with CSA Power Supply
 101-keys Enhanced Keyboard
 2 Year Parts & Service Warranty

486 INTEL AMD
DX2-66 \$1,208 \$1,125
DX4-100 \$1,270 \$1,185
DX4-120 \$1,210

Video Graphics Adaptors

ATI Mach 64 Xpression VLB/PCI w/2MB DRAM \$240.00
 ATI Mach 64 WinTurbo VLB/PCI w/2MB VRAM \$359.00
 ATI Mach 64 Win Turbo VLB/PCI w/4MB VRAM \$610.00
 ATI Mach 64 Graphic Pro Turbo VLB/PCI w/2MB VRAM \$457.00
 Diamond Stealth 64 Video PCI w/1MB DRAM \$180.00
 Diamond Stealth 64 Video PCI w/2MB DRAM \$245.00
 Diamond Stealth 64 Video 3200 PCI w/2MB VRAM \$359.00
 Diamond Stealth 64 Video VLB/PCI w/2MB VRAM \$477.00
 Diamond Stealth 64 Video VLB/PCI w/4MB VRAM \$699.00
 Cirrus Logic 5429 VLB w/1MB exp. to 2MB \$93.00
 Cirrus Logic 5434 PCI w/1MB exp. to 2MB \$132.00
 S3-664 64-Bit PCI w/1MB exp. to 2MB \$135.00
 Trident 9440 PCI w/1MB exp. to 2MB \$93.00

Monitors

Sceptre 14" NI/L/R(1024X768,.28mmDP) \$300.00
 Sceptre 15" NI/L/R(1280x1024,.28mmDP) \$470.00
 CompuPartner 14" NI/L/R(1024X768,.28mmDP) \$330.00
 CompuPartner 17" NI/L/R(1280x1024,.28mmDP) \$805.00
 ADI 4GP 15" NI/L/R(1280x1024,.28mmDP) \$540.00
 ADI 5EP 17" NI/L/R(1280x1024,.28mmDP) \$890.00
 Mag DX15F 15" NI/(1280X1024,.28mmDP) \$499.00
 Mag DX17F 17" NI/(1280X1024,.26mmDP) \$935.00
 Sony 15SF 15" NI/L/R(1280X1024,.25mmDP) \$680.00
 Sony 17SF 17" NI/L/R(1280X1024,.25mmDP) \$1295.00
 Sony 17SE 17" NI/L/R(1600X1280,.25mmDP) \$1540.00

HD/FD Controllers

ISA IDE HD/FD Controller with I/O \$19.00
 VLB Enhanced IDE with I/O \$30.00

Keyboards & Cases

Fujitsu 4720 Enhanced 101 Keys \$59.00
 Fujitsu 8720 Enhanced 101 Keys \$33.00
 Mitsumi Windows 95 Keyboard \$35.00
 Enhanced 101-Keys \$25.00
 Microsoft Natural Keyboard \$119.00
 Full Size Tower with 230W CSA Power Supply \$120.00
 Mid Size Tower with 230W CSA Power Supply \$80.00
 Mini Size Tower with 200W CSA Power Supply \$60.00
 Desktop with 200W CSA Power Supply \$65.00

Drives & Tape Backup

1.2MB 5.25" Floppy Drive \$63.00
 1.44MB 3.5" Floppy Drive \$43.00
 Enhanced 540MB IDE Hard Drive \$228.00
 Enhanced 850MB IDE Hard Drive \$270.00
 Enhanced 1.2GB IDE Hard Drive \$355.00
 Enhanced 1.6GB IDE Hard Drive \$545.00
 Seagate 1.0GB SCSI-2 Hard Drive \$490.00
 Seagate 2.1GB SCSI-2 Hard Drive \$1050.00
 Seagate 4.26GB SCSI-2 Hard Drive \$1430.00
 Seagate 9.0GB SCSI-2 Hard Drive \$3450.00
 Colorado DJ-35 Jumbo 350MB Backup Drive \$180.00
 Colorado DJ-25 Jumbo 700MB Backup Drive \$293.00

Motherboards

Triton Pentium 75/90MHz PCI/ISA w/256KB Cache \$550/655
 Advanced/EV 75MHz PCI/ISA w/256KB Burst Cache \$815.00
 GigaByte Pentium 75/90MHz PCI/ISA w/256KB Cache \$530/635
 Cyrix 5x86-100 PCI w/256KB Cache \$430.00
 GigaByte 486DX2-86/486DX4-100 PCI w/256KB Cache \$260/320
 486DX2-66/DX4-100 VLB w/256KB Cache \$205/265

MultiMedia

Creative Labs 4X Performance \$555.00
 Creative Labs 4X Multimedia Home \$575.00
 Creative Labs 4X Digital School House \$475.00
 Creative Labs Sound Blaster 16 MCD (OEM) \$110.00
 Creative Labs Sound Blaster 16 SCSI (OEM) \$170.00
 Creative Labs Sound Blaster AWE32 \$360.00
 Creative Labs Sound Blaster 32 \$225.00
 Diamond 8000 8x Multimedia Kit \$760.00
 Panasonic 2X Double Speed CD-ROM Drive \$78.00
 Panasonic 4X Quad Speed IDE CD-ROM Drive \$199.00
 Creative Labs 6X Speed IDE CD ROM Drive \$415.00
 Toshiba 3601 4.4X Quad Speed SCSI CD-ROM Drive \$455.00
 NEC 6X Six Speed SCSI CD ROM Drive \$620.00
 Plessey 6X Six Speed SCSI CD-ROM Drive \$710.00
 16MB-70ns SIMM (72-pin) C a l l
 8MB-70ns SIMM (72-pin) C a l l

Memory

16MB-70ns SIMM (72-pin) C a l l
 8MB-70ns SIMM (72-pin) C a l l

Modems & Mice

4MB-70ns SIMM (72-pin) C a l l
 1MB-70ns SIMM (30-pin) C a l l
 14.4 S/R Int. Fax Modem \$ 69.00
 14.4 S/R Int. Fax Modem w/Voice \$ 90.00
 28.8 S/R Int. Fax Modem \$ 193.00
 Acer 28.8 S/R Int. Fax Modem w/Voice \$ 225.00
 US Robotics Sportster 14.4 Int. Fax Modem \$ 125.00
 US Robotics Sportster 14.4 Ext. Fax Modem \$ 149.00
 US Robotics Sportster 28.8 Int. Fax Modem V.34 \$ 259.00
 US Robotics Sportster 28.8 Ext. Fax Modem V.34 \$ 287.00
 US Robotics 28.8V Int. Fax Modem w/voice \$ 289.00
 Microsoft Mouse v.2 OEM \$ 35.00
 Logitech Mouseman OEM \$ 35.00
 Microsoft Corp. Mouse \$ 15.00

Printers

Canon BJ-20 \$245.00
 Canon BJC-4000 Color Inkjet \$459.00
 Canon BJC-70 Color Printer \$485.00
 Brother HL-660 Laser Printer 600dpi \$730.00
 Brother HL-1260 Laser Printer 600dpi \$1680.00
 Epson Stylus Color Inkjet 720dpi \$719.00
 Epson Stylus Color Inkjet 720dpi \$459.00
 HP 600 Deskjet Printer \$429.00
 HP 660 Deskjet Color Printer \$579.00
 HP 5L LaserJet, 600 dpi 4 PPM \$699.00
 HP 5P LaserJet, 600 dpi 6 PPM \$1288.00
 Raven PR-2405 24-pin, 192 cpi \$235.00
 Raven PR-2420 24-pin, 256 cpi \$385.00
 Raven PR-2467Q 240 cpi \$595.00



HEWLETT
PACKARD

Authorized
Retailer

MicroConcept
 102 - 1245 West Broadway
 Vancouver, B.C. V6H 1G7

Lowest Prices on Name Brands

486DX2-66MHz



- 486DX2-66 Processor
- 8 Pentium Overdrive Upgradable
- 540MB EIDE Hard Drive
- 4MB RAM
- 1.44MB Floppy Drive
- Local Bus SVGA Card W/1MB
- Quad Speed CD-ROM
- SB16 Sound Card & Speakers
- 14.4K Internal Fax Modem
- 101 Keyboard & PS/2 Mouse
- 2 Serial & 1 Parallel Port
- DOS 6.22, Windows 3.11, Intuit Quicken SE, Works & much More!

\$1399

Pentium 75MHz



- Pentium 75MHz Processor
- 850MB EIDE Hard Drive
- 8MB RAM
- 1.44MB Floppy Drive
- Local Bus SVGA Card W/1MB
- SB16 Sound Card & Speakers
- 14.4K Internal Fax Modem w/voice
- 4X Speed CD-ROM
- PS/2 Mouse
- 101 Enhanced Keyboard
- 2 Serial & 1 Parallel Port
- DOS 6.22, Windows 3.11, Encarta, Works, Golf & much more!

\$1999

486SX2-50MHz



- 486SX2-50 Processor
- 420MB IDE Hard Drive
- 4MB RAM
- 1.44MB Floppy Drive
- Local Bus SVGA Card W/1MB
- SB16 Sound Card & Speakers
- 16-bit Stereo Sound & Speakers
- Double Speed CD-ROM
- 14.4K Internal Fax Modem & PS/2 Mouse
- 14" SVGA Monitor .28mm DP
- 101 Enhanced Keyboard
- 2 Serial & 1 Parallel Port
- Includes 27 Software titles like DOS-6.22, Windows 3.11, Microsoft Works, Microsoft Money, Grolier Encyclopedia

\$1260

Pentium 75MHz



- Pentium 75MHz Processor
- 850MB EIDE Hard Drive
- 8MB RAM
- 1.44MB Floppy Drive
- PCI Local Bus SVGA Card W/1MB
- 16-bit SRS Stereo Sound & Speaker
- Double Speed CD-ROM
- 14.4K Internal Fax Modem w/voice
- PS/2 Mouse
- 101 Enhanced Keyboard
- 2 ECP Serial & 1 Parallel Port
- Includes 27 Software titles like DOS-6.22, Windows 3.11, Microsoft Works, Microsoft Money, Grolier Encyclopedia

\$1799

Limited Quantity !!

* Re-manufactured - 1 Year Warranty

Monitor Sold Separately

MICROCONCEPT NETWORK PRODUCTS FOR LESS !!

NOVELL SOFTWARE

Novell 3.12 5 user
\$780.00



NetWare v3.12*

NetWare v3.12 5/10 User \$780.00
NetWare v3.12 25/50 User \$2480.00
NetWare v3.12 100/250 User \$4395.00
NetWare v3.12 Manuals Only \$335

NetWare v.4.1*

NetWare v.4.1 5/10 User \$780.00
NetWare v.4.1 25/50 User \$2480.00
NetWare v.4.1 100/250 User \$4395.00
NetWare v.4.1 500/1000 User \$14900.00
NetWare v.4.1 Manuals Only \$210

UNIX Connectivity

LAN WorkGroup v.4.2 5/10 User \$1525.00
LAN WorkPlace for DOS 1/10 User \$386.00
NetWare NFS Gateway v.1.2 5 User \$1520
NetWare NFS Gateway v.1.2 10 User \$2535
NetWare NFS Starter Kit \$1515
NetWare IP/v.1.5/25 User \$505.00

Enterprise Connectivity

NetWare for SAA 16/64 session \$2005.00
NetWare HostPrint 16/256 sessions \$1225.00
Novell NetWare Connect 8 port \$2160
Novell NetWare Connect 32 port \$5500
NetWare for Macintosh v.3.12 200 User \$1000
NetWare for Macintosh v.4 Unlimited \$1215
NetWare Management System v.2.0 \$2525
LANalyzer for MS Windows v.2.1 \$1515
*upgrade full-version

MICROSOFT NT

Windows NT Server v.3.51 CD \$890
Windows NT Server v.3.51 User License \$5.00
Windows NT Workstation 3.51 CD \$405
Windows NT Workstation 3.51 upgrade \$125
Microsoft SMS version 1.0 \$870
Microsoft SMS ver 1.0 User License \$6.80
Microsoft SNA Server v.2.1 Windows NT \$545.00

TAPE DRIVE

Conner Tapestor 4000 4 GB Tape Drive
\$775.00

Colorado Powertape 2GB Int/Ext \$1460.00

POWER PROTECTION

APC BackUPS 280
\$149.00

American Power 120 Volt

BackUPS 200/280 \$132/149
BackUPS 400/450 \$210/256
BackUPS 600/900/1250 \$355/505/680
SmartUPS 250/400/600 \$330/415/500
SmartUPS 900/1250/2000 \$720/888/1675

CABLES & JACKS



Twisted Pair

Assembly, 10 BaseT Cable 8/25/50 ft \$10/18/25
Assembly, 10 BaseT Cable 100 ft \$4.50
Cable, 10BaseT 8c UTP, per ft \$0.35
Cable, 10BaseT 8c UTP, per 1000 ft \$2.20
Connector RJ45M \$1.00

Coaxial

Assembly, RG58/AU Thin Coax 25/50 ft \$15/22
Assembly, RG58/AU Thin Coax 100 ft \$3.50
Cable, RG58/AU Bulk per ft \$0.25
Cable, RG58/AU Bulk per 1000 ft \$180
Connector, BNC "T" \$2.50

ETHERNET COAX Adapters

Colorado Powertape 4GB Int/Ext	\$1700/2035	Terminator, BNC, 52 ohm	2.50	DaynaStar Hub 24	\$1230
Colorado PT10 1.0GB SCSI-2 Internal	\$ 9 2 0	Terminator, BNC, 52 ohm w/ground strap	1 0	Hewlett Packard AdvanceStack 12	\$ 9 2 0
Colorado PowerDAT 6000 4GB Int/Ext	\$1515/1800			Hewlett Packard AdvanceStack 24	\$1525
Colorado Trakker 350MB/700MB	\$345/500			Hewlett Packard AdvanceStack 48	\$2830
Conner Tapestor 4000 4GB QIC	\$ 7 7 5			Hewlett Packard 8 Port EtherTwist	\$ 3 9 5
Conner Turbo 4.0GB DAT Internal Drive Kit	\$ 1 3 7 5			Hewlett Packard 48 Port EtherTwist	\$2235
Conner Turbo 4.0GB DAT External Drive Kit	\$ 1 6 5 0			Microdyne EH1200 12 Port Hub	\$ 3 0 9
Exabyte 8505XL 7-14GB Int/Ext 8mm Tape Drive	\$3000/3130			Microdyne EH1200 8 Port Hub	\$ 2 7 5
Exabyte 4200 2-4GB Int/Ext 4mm DAT Drive	\$1150/1380	3COM 3C503 Etherlink II BNC ea/5+	222/200	Microdyne 16 Port Hub	\$ 7 0 0
Hewlett Packard 2.0GB DAT	\$ 1 0 6 5	3COM 3C509B Etherlink III BNC ea/5+	155/138	Network Express 8/12 Port Hub	\$ 2 8 5
Hewlett Packard 2GB to 8GB DAT	\$ 1 2 2 0	3COM 3C509B Etherlink III BNC 20 pk	2535	Network Express 16 Port Hub	\$ 6 0 8
Hewlett Packard 4GB to 16GB DAT	\$ 1 4 7 0	3COM 3C509B Combo BNC/RJ45 ea/5+	173/150	SMC Tigerhub 6 Port Hub	\$ 2 4 0
Sony SDT-5000A 4-16GB Int/Ext DAT	\$1390/1605	3COM 3C509B Combo BNC/RJ45 20 pk	2770	SMC Tigerhub 12 Port Hub	\$ 5 2 9
Tecmar DataVault 8000 8GB External	\$ 2 6 2 0	3COM 3C509B Combo BNC/RJ45 60 pk	7800	SMC 3608TP 8 Port Hub	\$ 4 3 0
Wangtek 3400DX 8/16GB Int. DAT	\$ 1 7 3 5	3COM 3C590 PCI Ethernet III Combo	230	Synoptics 2800A	\$ 8 5 0
		3COM 3C590 PCI Ethernet III Jumpsess	112	Synoptics 2813-04 16 Port/4 exp port	\$2335
		CNet CN100E BNC Ethernet	7 0		
		CNet CN200E BNC Ethernet ea/5+	7 9 / 7 5		
		CNet CN200E+ BNC Ethernet Jumpsess	7 9		
		CNet CN10EBT/PCI Ethernet Jumpsess	2 2 7	10 BASE T Adapters	
		CNet CN10EBT/PCI Ethernet	105/99	3COM 3C503-16 TP ea/5+	\$235/205
		Eagle EP 2000plus 16 Bi BNC ea/5+	169/155	3COM 3C509B TP ea/5+	\$140/128
		Intel EtherExpress Flash BNC ea/5+	146/135	3COM 3C590 TP PCI	\$ 1 9 3
		Intel Ether PRO BNC & RJ45 ea/20+	141	CNet CN600E 10 Base T ea/5+	\$ 7 0 / 6 7
		Microdyne NE2000 + BNC	135/125	CNet CN600E+ 10 Base T Jumpsess	\$ 7 5
		SMC Ethercard 16 BNC ea/6+	2 6 5	CNet CN970EBT 10 Base T PCI	\$ 1 8 0
		SMC Ethercard Elite/a Microchannel BNC	150/138	Eagle Anthem NE2000T + ea/5+	\$101/95
		SMC Ultra 16 Combo ea/6+	520	Eagle Anthem NE200T PCMCIA	\$ 2 9 4
			520	HP EtherTwist 10 BaseT ea/6+	\$ 1 1 8
			520	IBM Ethernet 10 BaseT Adapter ea/6+	\$ 1 1 7
			520	IBM PCMCIA Ethernet 10 BaseT	\$ 2 8 3
			520	Intel EtherExpress Pro 10 BaseT	\$ 1 4 7
			520	Microdyne NE 2000T+ 10 BaseT	\$ 1 0 1
			520	Microdyne NE 2000T+ 10 Base T 20 pk	\$1835
			520	Microdyne NE3300 EISA Combo	\$ 2 8 8
			520	Microdyne NE5500 PCI 10 Base T	\$ 2 5 9
			520	SMC Ethercard Elite 16T Ultra ea/6+	\$133/112
			540	SMC Elite 10 T/A Microchannel	\$ 2 6 5
			540	Xircam Pocket EtherTalk 10 BaseT	\$ 3 9 0
			570/670		

Print Servers

Castelle Lan Press 1 RJ45/1 Par	\$ 4 5 5	10 BASE T Adapters	
Castelle Lan Press 1 Par + 3 Ser	\$ 7 4 5	3COM 3C503-16 TP ea/5+	\$235/205
Castelle Lan Press 2 Par + 2 Ser	\$ 9 2 5	3COM 3C509B TP ea/5+	\$140/128
Emulex NetQue 2 Port Print Server	\$ 7 4 5	3COM 3C590 TP PCI	\$ 1 9 3
HP JetDirect J2552A RJ45/LocalTalk	\$ 7 4 5	CNet CN600E 10 Base T ea/5+	\$ 7 0 / 6 7
		CNet CN600E+ 10 Base T Jumpsess	\$ 7 5
		CNet CN970EBT 10 Base T PCI	\$ 1 8 0
		Eagle Anthem NE2000T + ea/5+	\$101/95
		Eagle Anthem NE200T PCMCIA	\$ 2 9 4
		HP EtherTwist 10 BaseT ea/6+	\$ 1 1 8
		IBM Ethernet 10 BaseT Adapter ea/6+	\$ 1 1 7
		IBM PCMCIA Ethernet 10 BaseT	\$ 2 8 3
		Intel EtherExpress Pro 10 BaseT	\$ 1 4 7
		Microdyne NE 2000T+ 10 BaseT	\$ 1 0 1
		Microdyne NE 2000T+ 10 Base T 20 pk	\$1835
		Microdyne NE3300 EISA Combo	\$ 2 8 8
		Microdyne NE5500 PCI 10 Base T	\$ 2 5 9
		SMC Ethercard Elite 16T Ultra ea/6+	\$133/112
		SMC Elite 10 T/A Microchannel	\$ 2 6 5
		Xircam Pocket EtherTalk 10 BaseT	\$ 3 9 0

Castelle Lan Press 1 RJ45/1 Par	\$ 4 5 5	10 BASE T Adapters	
Castelle Lan Press 1 Par + 3 Ser	\$ 7 4 5	3COM 3C503-16 TP ea/5+	\$235/205
Castelle Lan Press 2 Par + 2 Ser	\$ 9 2 5	3COM 3C509B TP ea/5+	\$140/128
Emulex NetQue 2 Port Print Server	\$ 7 4 5	3COM 3C590 TP PCI	\$ 1 9 3
HP JetDirect J2552A RJ45/LocalTalk	\$ 7 4 5	CNet CN600E 10 Base T ea/5+	\$ 7 0 / 6 7
		CNet CN600E+ 10 Base T Jumpsess	\$ 7 5
		CNet CN970EBT 10 Base T PCI	\$ 1 8 0
		Eagle Anthem NE2000T + ea/5+	\$101/95
		Eagle Anthem NE200T PCMCIA	\$ 2 9 4
		HP EtherTwist 10 BaseT ea/6+	\$ 1 1 8
		IBM Ethernet 10 BaseT Adapter ea/6+	\$ 1 1 7
		IBM PCMCIA Ethernet 10 BaseT	\$ 2 8 3
		Intel EtherExpress Pro 10 BaseT	\$ 1 4 7
		Microdyne NE 2000T+ 10 BaseT	\$ 1 0 1
		Microdyne NE 2000T+ 10 Base T 20 pk	\$1835
		Microdyne NE3300 EISA Combo	\$ 2 8 8
		Microdyne NE5500 PCI 10 Base T	\$ 2 5 9
		SMC Ethercard Elite 16T Ultra ea/6+	\$133/112
		SMC Elite 10 T/A Microchannel	\$ 2 6 5
		Xircam Pocket EtherTalk 10 BaseT	\$ 3 9 0

Castelle Lan Press 1 RJ45/1 Par	\$ 4 5 5	10 BASE T Adapters	
Castelle Lan Press 1 Par + 3 Ser	\$ 7 4 5	3COM 3C503-16 TP ea/5+	\$235/205
Castelle Lan Press 2 Par + 2 Ser	\$ 9 2 5	3COM 3C509B TP ea/5+	\$140/128

IDE HARD DRIVES



635 MB/10ms	\$ 259	850 MB/11ms	\$ 289
850 MB/10ms	\$ 289	1.08 GB/12ms	\$ 359
1.20 GB/10ms	\$ 409	1.6 GB/10ms	\$ SOON
1.60 GB/10ms	\$ 569		



3 Year Warranty



1.06 GB/10ms \$ 369

SCSI HARD DRIVES



1.08 GB/9.5ms	\$ 579	540 MB/10ms	\$ 299
2.10 GB/9ms	\$ 1199	1.08 GB/10ms	\$ 499
2.1GB/8ms(Barracuda)	\$ 1399	3.1 GB/10ms	\$ 1399
4.1GB/8ms(Barracuda)	\$ 1849		
4.20 GB/9ms	\$ 1599		
9.08 GB/11ms	\$ 3549		
8.4GB Barracuda	\$ Soon	4.1GB/10ms	\$ 1899
18GB Elite	\$ Soon	9.1GB/12ms	\$ 3499

MEDIA KITS



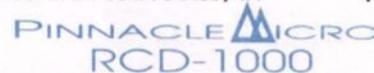
PANASONIC & SB-16 Includes: Panasonic CR-574, Sound Blaster 16, Manual, and Cables.	\$ 369
PANASONIC & AUDITION 16 Includes: Panasonic CR-574, Audition 16, CD-PAK Windows, Speakers, Manual, and Cables.	\$ 389
MEDIAVISION MV-1100 2X KIT Includes: Double Speed CD-ROM, Pro Audio Spectrum-16, Speakers, and Software Bundle.	\$ 189

Canada's Storage Experts! Micro Drives Canada Inc.
Phone: (604) 244-3737
Fax: (604) 244-3738
Toll Free: (800) 21-MICRO

CHANGERS/CD-R

CD-CHANGERS

Nakamichi MBR-7 7 Disc, 2X	\$ 399
Nakamichi 7 Disc, 4X	\$ 549
Pioneer DRM-604X 6 Disc, 4X	\$ 699

Price Breakthrough on a Double Speed
CD-Recorder!! Complete for PC or Mac

\$ 2199



supposed to protect sensitive information,
such as credit-card numbers.

"After months of touting its software as
a safe way to conduct credit-card transactions
over the Internet," says Rigidon, "Netscape
had to eat crow while it fixed the flaw. One of
its key customers, the online banking division
of Wells Fargo & Co., temporarily shut down
its Internet banking center after the bug came
to light."

Swiss Warn of Net Insecurity

The top information watchdog in the
Swiss government is warning Internet users
that their data are not safe from manipulation
on the global computer network.

Odilo Guntern, the Swiss data protection
commissioner, told the Reuter News Service
in Zurich he was prompted to speak by the
rapid growth in Internet popularity. He said
the information superhighway it opens is like
"a journey without a safety net."

Said Guntern, "There are no standard
international or global rules for protection of
information that are legally binding for the
Internet beyond national borders."

He noted Net users generally leave
behind a data trail when they browse through
the system, allowing others to trace their
movements, set up profiles of user habits, or
even manipulate financial data, all while
remaining unseen.

"Generally," he said, "there are no
obstacles to copying, altering, falsifying or
delaying data in the Internet."

Reuters says the commissioner advised
Internet users to set up organizational and

technological safety barriers, including
encoding sensitive information or using
electronic signatures to mark documents as
genuine. "Nevertheless,"

Guntern said, "every person who uses
the Internet should be fully aware of the
ensuing dangers and risks."

Sun Unveils New Video Servers

Three new video servers for corporate
customers that increase performance by 30
percent to 50 percent over existing systems
for the same price have been unveiled by Sun
Microsystems Inc.

Pricing for the SPARCserver 1000E and
SPARCcenter 2000E servers start at
US\$50,100 and US\$125,395, respectively,
running on an 85-megahertz processor.
Current users can upgrade for US\$5,000 for
the 1000E, which is an entry-level server, and
US\$9,995 for the 2000E, a mid-range
machine.

The servers work as data warehouses for
managing customer information. Recent new
customers include Intuit, BC Telecom and the
Bank of Maryland.

PC Connections

6600 No.3 Road, Richmond, B.C. V6Y 2C2
Tel: 270-4883 Fax: 270-3812
Hours: Mon-Sat 10 am to 6 pm

Is your system too slow?

CPU upgrade

SX/DX25, DX2/SX2 50 systems	
Intel® DX4-75 OverDrive® processor	\$ 199
Intel Pentium® OverDrive processor	\$ 369
SX/DX33 systems	
Intel DX4-100 OverDrive processor	\$ 249
Intel Pentium OverDrive processor NEW!	\$ 399
Limited Lifetime Warranty, 1-800 Support	
Up to 244% performance increase	
Easy installation for your EXISTING 486 computer	

Memory upgrade

4MB (4x1MB) 30pins RAM for IBM clones	\$ 209
4MB 72pins RAM for IBM clones	\$ 189
8MB 72pins RAM for IBM clones	\$ 379
16MB 72pins RAM for IBM clones	\$ 699
1 year warranty for the above modules	
Kingston memory with Limited Lifetime Warranty available for all name brand	
AST, Apple, Compaq, IBM, Dell, NEC, etc.	
All names and trademarks are property of their respective owners.	

486 DX4-100 PCI System

486 PCI MB w/256K Cache, 4MB RAM
AMD 486 DX4-100 CPU w/heatsink & fan
EIDE & fast I/O built-in, 1MB PCI SVGA card
540MB hard drive and 1.44MB floppy
Mini-tower case, keyboard and mouse

\$ 949

586 P75 PCI system

586 PCI/ISA MB w/Triton chipset & 256K Cache
Intel 75Mhz Pentium processor w/heatsink & fan
8MB RAM, Max. 196MB
PCI SVGA card w/1MB DRAM
730MB EIDE hard drive
1.44MB floppy drive
15" Mid-tower case
101 key enhanced keyboard and mouse

\$ 1,399

Monitors sold separately

Upgrades from P75:

90 Mhz Pentium processor
100 Mhz Pentium processor
120 Mhz Pentium processor
to ATI Mach 64 w/2MB DRAM
to Stealth 64 Video (MPEG) 2MB DRAM
to 1.2GB hard drive
14" NI green SVGA monitor
15" NI LR green SVGA monitor
Systems come with 2 years parts & labour
warranty except keyboard & mouse 1 year
2% surcharge for VISA and M/C, 4% for Amex

Fax Modem

USR Sportster 28.8 int / w/voice	\$ 259/299
USR Sportster 28.8 extl/ w/voice	\$ 279/329
USR Sportster 14.4 Si internal	\$ 95
USR Courier V.Everything/ Dual Std.	\$ 549/749
Creative Phone Blaster	\$ 339
Creative Modem Blaster 14.4 / 28.8	\$ 129/279
Megahertz PC Card (PCMCIA) 14.4 XJ	\$ 259
Megahertz PC Card (PCMCIA) 28.8 XJ	\$ 499

Storage

NEC 730 hard drive, 2 yrs warranty	\$ 239
Conner/Maxtor 1.2GB, 2 yrs warranty	\$ 369
Western Digital 850MB, 3 yrs warranty	\$ 299
Western Digital 1.2GB, 3 yrs warranty	\$ 429
HP Colorado 350MB int. tape backup	\$ 199
HP Colorado T1000 int. tape backup	\$ 279
Conner TapeStore 4000 IDE	\$ 789
IOMEGA Zip Drive Parallel or SCSI	\$ 289

Printer, Scanner

Canon BJ-100, 360dpi	\$ 279
Canon BJC-4000, 720dpi	\$ 479
HP Deskjet 600 (replacing 540), 600dpi	\$ 429
HP Deskjet 660 (replacing 560), 600dpi	\$ 579
HP Laserjet 5P, 2MB, 600dpi, 6ppm	\$ 1279
HP Laserjet 4 plus, 2MB, 600dpi, 12ppm	\$ 2149
Raven 2405 24pin dot-matrix	\$ 229
Raven 2407 24pin dot-matrix colour	\$ 279
HP Scanjet 3P, 300dpi, 256grey	\$ 479
HP Scanjet 3c, 600dpi, 30 bit colour	\$ 1389
Logitech Pictura 24-bit digital camera	\$ 1399

Multimedia

Creative Value 2X/4X	\$ 269/389
Creative Discovery 2X/4X	\$ 389/499
Creative Digital Schoolhouse 2X/4X	\$ 329/479
Creative Multimedia Home 4X	\$ 579
Creative Sound Blaster 32 (wave table)	\$ 229
Creative Vibra 16 (SB 16 OEM)	\$ 99
Toshiba 4X EIDE CD-ROM	\$ 229
Toshiba 4X SCSI XM-3601	\$ 449
Creative SE100 video overlay/still image	\$ 339
Creative MP400 MPEG playback	\$ 399
Creative RT300 full-motion video capture	\$ 489

Network Products

D-Link NE250, NE2000 compatible	\$ 59
Intel EtherExpress Pro/10 RJ45	\$ 129
Lantastic 6.0 5 users	\$ 459
Intel NetPortExpress XL print server	\$ 599
Kingston 8-ports RJ-45 hub	\$ 159
Intel LANDesk Mgmt Suite v.2.0, 5 nodes	\$ 559

Services

Picture scanning to diskettes (per scan)	\$ 10
Transfer photos to CD-ROM(24 pictures)	\$ 49
Data Archive to CD-ROM (Blank 3M CD)	\$ 29
from Hard Drive \$0.69/MB, FREE removable hard drive rack with purchase over \$100	
from tape or floppy \$0.99/MB	
from CD \$0.89/MB, Max. 149	



Epson Ships New Notebooks

Epson is shipping its new ActionNote 890 notebook computer series.

The line, which replaces the firm's ActionNote 800 series, is based on a Cyrix 100MHz DX4-class microprocessor. The ActionNote 890 line includes four models:

the ActionNote 890C, 895C, 890CX, and 895CX. The 890C and 895C feature a dual-scan color display; the 890CX and 895CX offer an active-matrix screen. All models have a 540MB removable hard disk.

The ActionNote 895C and 895CX are multimedia-capable with a built-in 16-bit

stereo sound card, an internal microphone, and a speaker. The systems also feature an integrated 14.4K bps data/fax/voice modem. The sound card and modem are offered as optional equipment on all other ActionNote 890 models.

All ActionNote 890 systems are Windows 95 ready and include an Action Point touchpad pointing device. Other features include 8MB of RAM (expandable to 24MB) and stacked PCMCIA slots. Bundled software includes a choice of DOS, Windows, or Windows 95. Also included are Lotus SmartSuite, NetCom NetCruiser, ARK Workspace, and trial subscriptions to several

online services and the Official Airline Guide FlightDisk. Models with a built-in modem include WinFax Lite and WinCom Lite.

System prices start at US\$2,099.

Jim Manzi Resigns as Lotus CEO

Just four months after his firm was acquired by IBM in the software industry's biggest merger, Jim P. Manzi has resigned as CEO of Lotus Development Corp., telling employees in a memo that he feels he no longer fits with the company.

"The attributes that I believe made me an effective chief executive of a nearly billion-

dollar independent company, aren't necessarily the attributes required of an executive leading a division within a much larger organization," Manzi wrote. "The challenges that excited me previously aren't necessarily the same challenges we face today."

Manzi has led Lotus since April 1986 and became a senior vice president reporting to Gerstner of IBM after the \$3.5 billion takeover earlier this year. However, Ramstad points out that another senior vice president, John M. Thompson, holds responsibility for IBM's overall software products and strategies.

AE ELECTRONICS CORP.

TEL. 279-8867 FAX 279-5510 BBS 279-8510

138-2981 Simpson road
Richmond, BC, V6X 2R2
9AM-6PM Mon-Fri, 10AM-6PM Sat

call us on all your on-site service needs

**networking
virus removing
software installation
hardware trouble shooting**

Network Software & Kit

Microsoft Windows NT v3.51 Workstation	395
Microsoft Windows NT v3.51 Server user 1/10/20	875/1250/1595
Microsoft Windows NT v3.51 client each	55
Microsoft Windows 95 upgrade/full version/ plus	129/255/65
Netware v4.1 (5/10/25/50/100)	\$1065/2425/3595/4850/6775
Intel Net Satisfaktion ver 3.0 for Windows on Novell network	\$1250
2 user hardware Ethernet kit for NT/95 (no software) includes 2 GVC 10MB cards, 25' coax cable, 2 terminators	\$175
Lantastic AI v6.0 Starter Kit (complete setup for 2 node) 2 GVC 10MB cards, 2 software, 25' coax cable, 2 terminators	\$285
Lantastic AI v6.0 Add- On Kit (complete setup for 1 node) 1 GVC card, 1 software, 25' coax cable	\$155

Motherboard & RAM

Asus SP3 AMD486DX4-100MHz PCI/VLB MB, 256K, IDEIO	\$345
Asus SP3 486DX4-100MHz PCI/VLB MB, 256K, IDEIO	435
Asus TP4XE Pentium-75MHz PCI/ISA MB, 256K cache, IDEIO	635
Asus TP4XE Pentium-90MHz PCI MB, 256K cache, IDEIO	775
Asus TP4XE Pentium-100MHz PCI MB, 256K, IDEIO	925
Asus TP4XE Pentium-120MHz PCI MB, 256K, IDEIO	1225
Asus TP4XE Pentium-133MHz PCI MB, 256K, IDEIO	1445
*256K Pipelined Burst Cache available on TP4XE motherboards *ask about EDO Memory for Asus' Triton Chipset Motherboards	
AMD 486DX4-100MHz CPU 3V	\$145
486 CPU Heatsink / Pentium Heatsink	12/20
1MB/4MB SIMM-70ns (30pin)	55/195
4MB/8MB/16MB SIMM-70ns (72pin) w/o Parity	190/370/695
4MB/8MB/16MB SIMM (72pin) EDO Memory	225/445/895
*Please call on all Ram prices	

Monitor, Video Card

Daytek 14" SVGA Monitor, .28mm dp I/NI	\$295/320
Daytek 15" SVGA Monitor, .28mm dp, NI, EStar	475
Daytek 17" SVGA Monitor, .28mm dp, NI, EStar	940
ADI 4Gp/LR 15" SVGA Monitor, .28mm dp, NI, EStar	540
ADI 5Ep/LR 17" SVGA Monitor, .28mm dp, NI, EStar	925
Sony 15sf 15" SVGA Monitor, .25mm dp, NI, EStar	1340
Sony 17sf 17" SVGA Monitor, .25mm dp, NI, EStar	1650
Sony 17se 17" SVGA Monitor, .25mm dp, NI, EStar	1340
Cirrus Logic 5429 VLB Accelerator w/1MB	\$115
Cirrus Logic 5434 PCI Accelerator w/1MB	145
ATI Mach32 Accelerator w/1MB (ISA/VLB/PCI)	255
ATI WinBoost Accelerator w/2MB Dram (VLB/PCI)	365/625
ATI WinTurbo Accelerator w/2MB/4MB Vram (VLB/PCI)	275
Diamond Stealth 64 Video Accelerator w/2MB Dram (PCI)	375
Diamond Stealth 64 Video 3200 w/2MB Vram (PCI)	695
Diamond Stealth 64 Video 3400XL w/4MB Vram (PCI)	

Modem, Mice, Scanner

USR Sportster 14.4 v.32bis Fax/Modem (Int/Ext)	\$139/159
USR Sportster 28.8 v.34 Fax/Modem (Int/Ext)	265/290
USR Sportster VI 28.8 v.34 Voice/Fax/Modem(Int/Ext)	290/320
USR Sportster 28.8 v.34 PCMCIA Fax/Modem	399
UART chip for High Speed Modems	25
MS Compatible 3-button Serial Mouse	20
Logitech Mouseman (Serial/Bus)	75/95
Logitech Trackball serial mouse	115
Microsoft Mouse v2.0 (Serial/Bus)	85/115
Logitech Scanman 256 w/Omnipage OCR	155
Logitech Scanman Easytouch	245
Logitech Scanman Colour w/Omnipage OCR	295
HP ScanJet 3P Full Page Grey-Scale Scanner	495
HP ScanJet 3C Full Page Colour Scanner	1395
Bar code laser scanner gun, auto trigger	550
Magnetic card reader (serial or keyboard interface)	195
Magnetic card read/writer	1850

Accpac

Windowing system	2000	Plus
General Ledger	\$275	\$138
Accounts Receivable	795	610
Accounts Payable	1025	610
Lanpak users 5/10/20	1435/2388/3225	4 user
Order Entry		369
Inventory Control		610
Job Costing		610

Price may change without notice. All prices FOB Richmond. Insurance extra. Advertised prices are cash, add 2% for credit card orders.

Hard Drive, Controller

Western Digital 635MB EIDE HD, 10ms, 64K cache	\$255
Western Digital 850MB EIDE HD, 10ms, 64K cache	290
Western Digital 1.2GB EIDE HD, 10ms, 64K cache	420
Western Digital 1.6GB EIDE HD, 10ms, 64K cache	555
HP SureStore 1.2GB SCSI-2 HD, 10ms	620
HP SureStore 2.2GB SCSI-2 HD, 10ms	1220
*call for pricing on other drives	
IDE 1:1 HD/FD Adapter w/2S, 1P, 1G	\$25
Enhanced IDE HD/FD VLB Adapter w/2S, 1P, 1G	40
Promise 2300+ VLB Enhanced IDE Card w/Bios	85
Adaptec AH-1542CF ISA SCSI-2 Controller Kit	\$375
Adaptec AH-2842 VLB SCSI-2 Controller Kit	365
Adaptec AH-2940 PCI SCSI-2 Controller Kit	385

Tape, Case, Power

Colorado DJ-35 Tape Backup Drive (350MB Max.)	\$185
Colorado Travan T1000 Tape Backup Drive (800MB Max.)	245
Colorado DJ-50 Tape Backup Drive (1.4GB Max.)	345
Colorado Trakker 350 Parallel Backup (350MB Max.)	345
HP JetStore 2-8GB Internal 4MM DAT Drive	1275
3M DC2120 tape cartridge 120MB capacity	\$20
3M DC2120XL Tapes, (350MB Max.)	25
3M MC3000XL Tapes, (1.4GB Max.)	45
3M DG90M 4MM DAT Tapes	17

Colorado DJ-35 Tape Backup Drive (350MB Max.)

Colorado Travan T1000 Tape Backup Drive (800MB Max.)

Colorado DJ-50 Tape Backup Drive (1.4GB Max.)

Colorado Trakker 350 Parallel Backup (350MB Max.)

HP JetStore 2-8GB Internal 4MM DAT Drive

3M DC2120 tape cartridge 120MB capacity

3M DC2120XL Tapes, (350MB Max.)

3M MC3000XL Tapes, (1.4GB Max.)

3M DG90M 4MM DAT Tapes

CD-ROM & Others

Panasonic DoubleSpin CD-Rom	\$95
Toshiba QuadSpin CD-Rom 5302B IDE/3601 SCSI-2	225/445
SoundBlaster 16 Vibra Sound Card (OEM)	125
Multimedia Stereo Speakers, 25 Watts	50
Sony CSS-B100 Speaker Set	135
Creative Labs Multimedia Home Office 4X Kit	585
Teac 1.20MB 5.25" Floppy Drive	\$70
Teac 1.44MB 3.5" Floppy Drive / with frame	60/65
Fujitsu KB-8720 Keyboard, 101 Key Soft-Tactile	38
Fujitsu KB-4720 Keyboard, 101 Key Click Tactile	65
MS "Natural" Keyboard	125
Focus 2001/2 Keyboard, 101 Key Enhanced	55
APC Personal SurgeArrest Strip w/Tel	45
APC Professional SurgeArrest Strip	65
APC Back-UPS 280/400/450/600VA	145/215/250/350
APC Smart-UPS 250/400/600/900VA	325/415/495/715

Panasonic DoubleSpin CD-Rom

Toshiba QuadSpin CD-Rom 5302B IDE/3601 SCSI-2

SoundBlaster 16 Vibra Sound Card (OEM)

Multimedia Stereo Speakers, 25 Watts

Sony CSS-B100 Speaker Set

Creative Labs Multimedia Home Office 4X Kit

Teac 1.20MB 5.25" Floppy Drive

Teac 1.44MB 3.5" Floppy Drive / with frame

Fujitsu KB-8720 Keyboard, 101 Key Soft-Tactile

Fujitsu KB-4720 Keyboard, 101 Key Click Tactile

MS "Natural" Keyboard

Focus 2001/2 Keyboard, 101 Key Enhanced

APC Personal SurgeArrest Strip w/Tel

'Information Poverty' Feared

A new European study says "information poverty" threatens the developing world because the Internet is concentrated in the richer countries.

A non-governmental organization funded largely by Scandinavian countries, the study by the Panos Institute says 70 percent of computers linked up to the network were in the United States, while fewer than 10 African countries were connected.

Reporter Mark John of the Reuter News Service quotes the study as concluding, "There is a danger of a new information elitism which excludes the majority of the world's population."

In fact, the report says, poor countries

already are being left behind because of the high cost of computer equipment and low literacy rates.

Report author Mike Holderness told Reuters, "The technology could actually increase the gap between rich and poor," but that a modem costs around four times more in India than in the United States. Holderness also estimated that a new computer would represent around six months of the unemployment benefit paid to a jobless Briton or several years' wages for an "underemployed" Indonesian.

Noting that about 80,000 companies are thought to be using the Internet as part of their business, Holderness said these firms are, as a result, likely to export clerical jobs to developing countries, but only those with low labor costs, high literacy, and high network access.

Reuters says there are about 3.4 million "host" computers hooked up to the Internet in the United States and just over 500,000 in west Europe, but Africa had just 27,100 hosts, Central and South America 16,000, and the Middle East 13,800.

Holderness cites two urgent priorities:

- Stepping up existing literacy campaigns in the developing world.
- Relaxing of trade constraints that made computer equipment expensive there.

Fujitsu Freshens Hard Disk Line

Five new hard disk drive products are being unveiled by Fujitsu Computer Products of America, a unit of Japan's Fujitsu Ltd.

Reporting from San Jose, Calif., the Dow Jones news service says that for the workstation and file server markets, Fujitsu has introduced the 3.5-inch M293X, M294X and M295X SCSI product lines.

The company says these lines all have 7,200-revolution per minute rotation speeds, 512K cache and 10MB to 40MB per second interface burst data rates. All three product lines are compatible with Novell NetWare and Windows NT.

Here, from the wire service, are specifics:

- The Fujitsu M294X SCSI-2 fast and wide series will ship in the fourth quarter with

V-COM offers PC Buyers solid consulting

It usually involves confusion with conflicting information, a myriad of different sales persons, and hours of walking and standing around taking notes and not making any progress at all. Not quite what we had in mind when deciding to take the family out for the long awaited PC purchasing expedition.

Fear not. There is a virtual oasis in the high tech desert that makes the experience a real pleasure.

In the business for over 13 years

V-Com Computers, located on the corner of Marine Drive and Kerr in Vancouver, has been in the business of PC sales and service for over 13 years and it's apparent, right away, why they continue to thrive in this ever changing market.

Hands on, sit down demonstration systems

The layout of the main showroom is both practical and comfortable. Demonstration models are set up on "hands on, sit down" workstations so you can try them out. Customers can better assess their particular needs and they have an opportunity to evaluate the exact system that they intend to buy.

A guide through the micro maze of products is handled by seasoned professional consultants that listen to the customer's questions and help in putting together the package that best suits their needs.

V-Com's strength is the ability to custom configure each system to the customer's specifications.

This is a real plus as the customer need not go over the budget right now as the system can be easily upgraded later.

There is one station set up just to take you for a little surf through the Internet. A great journey around the world via the net.

The sight and sound room is simply unbelievable

The Sight and Sound Room is simply unbelievable. If you really want to see the potential of today's computers you have got to see this! When I was there, the movie Top Gun was being displayed on 4 monitors of different sizes with a surround like sound blasting from the Pentium system driving the

display. This is a real help in showing the differences in monitors and speakers.

Obviously service is something that the company is proud of. Most places have the service department hidden away well out of view of the customer. Not at V-Com. The service area is in plain view and comfortable seating is available for the customer. (A cup of coffee is usually at hand as well)

Solid consulting

But when you get right down to it, it's a great place because there is someone there to really take the time, sit down and provide solid consulting on the needs of the customer.

Definitely, a must place to go when venturing out into the wild, wild world of computer buying.

**V-COM
Product
of
The
Month**

THE NEW SATELLITE PRO™ WITH MODULAR CD-ROM.

The new Satellite Pro™ offers faster access to your multimedia applications with a Quad-Speed CD-ROM.

Now you can retrieve masses of information from large databases and enjoy the hottest educational and entertainment software. A huge 10.4" diagonal color display and 24-bit true color support deliver brilliant graphics and stunningly realistic images that will leave you in awe. Crisp, clear stereo sound capabilities and smooth video playback will wake up any presentation. The Satellite Pro™ is portable multimedia computing at its highest level. So get going.



In Touch with Tomorrow
TOSHIBA

Toshiba. The World's Best Selling Portable Computers.

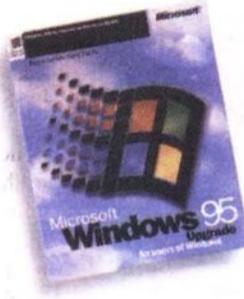
3104 S.E. Marine Drive Van. B.C
Phone: 437-8818/Fax 437-1881

1220-2nd Ave., Prince George
Phone: 562-9696/Fax 562-6161

V-COM

We're Listening to You

The ultimate mobile power machine...



OpenNote • 575

- Intel 75MHz Pentium processor
- LCD dual scan colour screen
- Simultaneous LCD & CRT display
- 8MB RAM exp. to 40MB on board
- 340MB hard drive (810MB or 1.3GB option)
- 3.5" high density floppy drive
- 1MB local bus video
- PCMCIA type II and III slots
- built-in track stick pointing device
- built-in 16-bit sound card
- 14.4 PCMCIA fax modem
- Adaptec AIC-6360 fast SCSI controller
 - Serial & parallel ports, docking bay port
 - external keyboard and monitor ports
 - rechargeable NiMH battery, AC adapter
- Speaker & microphone jacks
- carrying bag, car cigarette cable
- Windows 95 pre-loaded

\$2,999

Only \$115 per month*

It's no surprise that Canada's leader in value priced desktop computers is introducing the country's first affordable colour notebook with a Pentium processor. What's surprising is the awesome power and functionality that's packed into the new IPC OpenNote!

Powered by a 75 or 100MHz Pentium processor, the OpenNote has all the techie features you're looking for -- PCMCIA slots, a built in 16-bit audio system, local bus video -- plus room for 40 megs of RAM.

More importantly, the OpenNote is a comfortable fit anywhere you take it. The rechargeable battery with an AC adaptor, plus the built-in palm rests and three button track stick will keep you happily notebooking a whole lot longer.

And the OpenNote has ports and connectors to plug in everywhere. Add a keyboard or a monitor, or plug in up to seven SCSI devices -- the OpenNote is an incredibly versatile computer!

So check out this ultimate mobile power machine at your local authorized IPC dealer, or dial 1.800.567.7413 for more info.



Take the power of an all new IPC OpenNote with you - everywhere!

See The IPC OpenNote in person at:

Abbotsford	Pacific Office N Things	604.864.0865
Burnaby	Dexton Enterprises	604.433.9866
Campbell River	Odyssey Computer Services	604.287.3311
Coquitlam	Moody Computers	604.941.9105
Nelson	Nicolson Computer Supply	604.354.4666
North Delta	Micropro Compu-Electronics	604.591.8496
Port Hardy	Joyful Sound	604.549.7771
Revelstoke	The Computer Room	604.837.5888
Salt Spring Island	HWN Design Computers	604.537.1101
Surrey	Express Computer Services	604.535.6508
Victoria	Data Image Technology	604.388.9991
Williams Lake	Information Management Service	604.392.4675

Building quality PCs in Canada for over 10 years!

IPC Personal Computers are built in Canada by: 3D Microcomputers, 150 Bullock Drive, Markham, Ontario L3P 1W3. Fax: 905.472.6633. The Intel Inside Logo and Pentium are trademarks of Intel Corporation. The IPC logo is a trademark of 3D Microcomputers. Windows and the Windows 95 logo are trademarks of Microsoft Corp. System not necessarily as shown. Regional price variances may apply. Prices and configuration subject to change without notice. *O.A.C. based on 36 month term, first and last payments in advance with a 5% buyback option.

a list price for the 8.8-gigabyte drive of US\$1,995.

• The M295X series, which also begins shipping in the fourth quarter, comes in 2.2- and 4.4-GB capacities. List prices for the 2.2GB M2952 and 4.4GB M2954 are US\$850 and US\$1,050, respectively.

• The M293X series of SCSI-2 fast and wide

drives in 2.2GB and 4.4GB capacities are shipping in volume now and have list prices of US\$795 and US\$995, respectively.

• The M160X series, with SCSI-2 or ATA-2 drives for departmental server or desktop computer use, is now shipping in a range of capacities from 540MB to 1.08GB and features a rotational speed of 5,400 rpm. The

M160X 1GB, SCSI-2 drive has a list price of \$335 and the M160X 1GB, ATA-2 drive, a list price of US\$245.

• Fujitsu M161X ATA-2 drives, designed for mid-range performance desktop computer applications, have list prices for the 1GB series drive of US\$235.

Dow Jones says Fujitsu also unveiled a new 2.5-inch M271X ATA-2 series with one of the lowest profiles (12.5mm) available for portable computers. List price for the 1GB model is \$495. Drives also will be available in 540MB and 810MB capacities, DJ says.

Digital Camcorder Price Set

Matsushita Consumer Electronics Co. has set the price of its first Digital Videocassette (DV Cassette) camcorder at \$4,199.95. The PV-DV1000 is due on store shelves later this month.

The company, located in Secaucus, New Jersey, reports that the camcorder offers a resolution of 500 lines, 50 percent better than a live television broadcast, plus CD-quality audio. The PV-DV1000 uses a cassette that's 1/12th the size of a standard VHS tape. Each \$13.99 60-minute tape can store up to 12.5 gigabytes of information — the capacity of 8,700 floppy disks.

Matsushita notes that the format has future potential for multimedia applications, giving users the ability to manipulate recordings on a PC or transmit them over telephone lines.

World Trade Organization on Web

Add the World Trade Organization to the growing list of international associations coming to the Internet's World Wide Web.

The site (located at Web address <http://www.unicc.org/wto>) will be progressively updated and expanded, and provide online visitors with a description of the organization's activities, the results of the Uruguay Round, trade statistics, and trade reports.

CD-ROM Sales Soon to Top Floppies

Market researcher IDC/LINK is forecasting that CD-ROM software sales will pass floppy disk revenue sometime in 1996.

The company, based in New York, reports that CD-ROM revenues were \$1 billion in 1994 and are expected to grow at a compounded annual growth rate of 43 percent by the year 2000. By contrast, floppy disk revenues were \$3.6 billion in 1994 and are expected to decline \$2.7 billion within the next five years.

IDC/LINK says the CD-ROM field is being driven by expanding home PCs market. The researcher notes that other factors spurring CD-ROM sales include a demand for applications that combine audio, video, and text; the influence of children on multimedia PC purchases; a diffusion in retail channels for multimedia hardware, making PCs available in more non-computer retail outlets; and declining price points relative to incremental increases in performance.

Wireless Market Growing 16 Percent

An industry tracker says annual revenues from wireless telecommunications could reach \$82.7 billion by the year 2006, compared with the current level of \$21.3 billion.

According to United Press International, in a report from Carmel, California, Paul Kagan Associates is predicting the number of subscribers will grow to 142.8 million from 34.8 million during that period, representing an annual growth rate of 16 percent.

BYTE & SOUND

Computer - Multimedia - Karaoke - Cellular

Canon MONEY-SAVING PROMOS

Laser Printer

Canon LBP-430W Laser Printer

4 pages per minute
Microsoft-at-work Printing System
True WYSIWYG at Faster Speed
Industry First 3 year Warranty

\$569

Received 2 Free toner Save \$176

Canon LBP-460 Laser Printer

4 pages per minute
600DPI Canon's Automatic Image Refinement Technology
Microsoft Windows Printing Systems
Industry First 2 year Warranty

\$529

NEC 2000D Color Notebook

486DX4-75
8MB Ram
340MB Hard Drive

\$2700

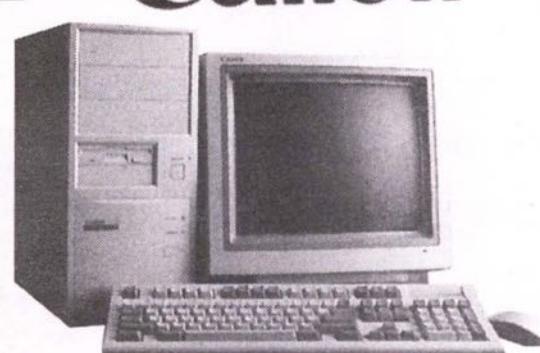
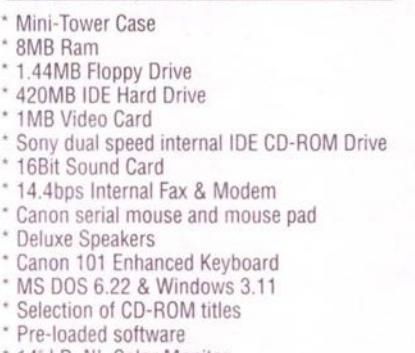
Versa 486/33 Color Notebook

\$1700

Bubble Jet Printers

Canon BJ-30 Portable Bubble Jet  \$315	Canon BJC-4000 Color Bubble Jet  \$429	Canon BJC-70 Portable Color Bubble Jet  \$479
--	---	---

Canon Innova Media System

Pentium 60mhz Processor  \$2,199 ⁰⁰	486DX2-66MHz Processor  \$1,799 ⁰⁰
---	---

Prices are subject to change without notice. VISA service charge is 2.8%.

SURREY
Tel: (604) 589-0388
Suite #103, 14888-104th Ave. Surrey, B.C. V3R 1M4

COQUITLAM
Tel: (604) 941-1833
#124 Westwood Mall, Coquitlam, B.C. V3B 1C5

LEADING THE CHARGE



WINPACK 95

Allows you to

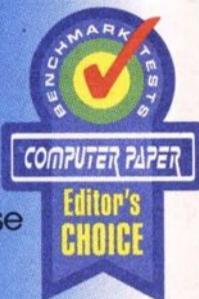
JUMP Start

your Windows® 95 applications!

No doubt about it, Windows® 95 --Microsoft's newest 32-bit operating system, will change the way computers are used! To maximize the advanced features of its new 32-bit applications, Windows® 95 will demand the ultimate from your hardware. COMTEX has met the challenge with their **Winpack95-55CMS**.

• • • •
The winner of the
COMPUTER PAPER
Editor's Choice for
Pentium Powerhouse
(August 1995)

has added



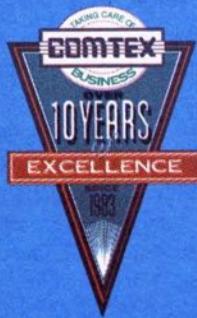
WINNER
August 1995

• • • •
Microsoft's
Windows® 95 and
a host of multi-
media goodies to
produce the
ultimate in Pentium
performance!

• • • •
With Intel's 133 MHz
Pentium CPU
added to our
U.S. made



burst synchronous cache, it blows the doors off the competition. Adding a multimedia PCI video card with 2 MB VRAM and a speedy 1.6 GB Mode 4E-IDE hard drive gives you speed to burn. We finish the system off with a Quad speed CD-ROM drive, 16-bit sound card and a 14,400 bps voice/ fax/ data modem to make sure that the COMTEX **Winpack95-55CMS** leads the charge in the Windows® 95 hardware sweepstakes.



All Registered Trademarks and other Trademarks are of their respective Companies.

The Intel Inside Logo is a trademark of Intel Corporation.

Microsoft, MS-DOS and Windows are either registered trademarks or trademarks of Microsoft Corp. in the United States and / or other countries.

Call us for your nearest COMTEX's Dealer

COMTEX MICRO SYSTEMS INC.

Head Office

#100-13751 Mayfield Place
Richmond, British Columbia,
Canada V6V 2G9

Tel: (604) 273-8088

Fax: (604) 278-2818

Branch Office

#7-3610 29th Street N.E.
Calgary, Alberta,
Canada T1Y 5Z7

Tel: (403) 250-3386

Fax: (403) 250-8092

Cellular phones will dominate the industry in the next few years, the firm reports, with two new technologies — enhanced mobile radio and personal communications services, or PCS — starting to fuel growth during the next century.

Kagan Associates predicts:

- Cellular customers will rise from 34.7 million to 74.5 million in the year 2000, then add another 17.9 million over the following six years.

• PCS will have reached 8 million by the turn of the century and hit 37.5 million by the year 2006, and enhanced radio services will go from 3.1 million in 2000 to 12 million six years later.

UPI says the study shows PCS is expected to target consumers with a low-cost "basic" service slightly undercutting cellular's packages, with the average PCS bill running at \$36 by 2006, compared with \$40 for cellular and enhanced radio at \$55.

Gates Still Richest Businessman

For the second straight year, Microsoft Corp. Chairman Bill Gates is the world's richest businessman, according to the annual survey by Forbes Magazines.

Business writer Eric R. Quinones of the Associated Press comments that Gates, "whose accomplishments this year included finally introducing Windows 95 and turning the Stones into

software pitchmen," now has a net worth of about \$14.8 billion, up 70 percent from last year.

The 39-year-old Gates called the Forbes list "silly" last year when he edged investor Warren Buffett for No. 1 at \$9.35 billion. This year, his 20-year-old Microsoft is supplying the software for 80 percent of the world's PCs and dominated news pages and advertising space with the Windows 95 software launched Aug. 24.

Buffett again was in the No. 2 slot, this year at roughly \$11.8 billion. Quinones notes Buffett's bottom line was boosted by about \$400 million after the Walt Disney Co. offered \$19 billion for Capital Cities/ABC Inc., one of his longtime holdings.

Notes AP, "Gates and Buffett also are the wealthiest commoners in the world, Forbes said. The only foreigners who aren't royalty and approach their riches are Swedish packaging magnate Hans Rausing and Japanese railroad and hotel tycoon Yoshiaki Tsutsumi, both worth about \$9 billion."

Rounding out Forbes' top five are:

- John Kluge, 81, of Charlottesville, Virginia, chairman of Metromedia Co. He is worth about \$6.7 billion and also was No. 3 last year, having interests in restaurants, entertainment, broadcasting, and medical technology.
- Paul Allen, 42, co-founder of Microsoft and owner of the Portland Trail Blazers basketball team. The value of Allen's Microsoft shares helped him jump from No. 16 to No. 4 with a worth of about \$6.1 billion.
- Sumner Redstone, 72, of Newton Centre, Massachusetts, chairman of Viacom Inc. He jumped 12 spots to No. 5 with a worth of about \$4.8 billion, in part by paring the entertainment empire.

Quinones comments that the Forbes list has increasingly become the domain of technology, retailing, finance, and entertainment moguls and less concentrated on heavy manufacturing and energy. For instance, new entrants include James Clark (No. 252, \$485 million), whose Netscape Communications Corp. software concern was the hottest initial public stock offering this year despite never having turned a profit.

Asia-Pacific PC Market to Boom

Experts expect a 24.3 percent year-on-year growth in the Asia-Pacific PC market this year, with sales reaching 6.66 million units.

Reporting from Singapore, the French Agence France-Press International News Service quotes a report by researchers at Dataquest as saying China, Thailand, and Malaysia are leading the boom, with China breaking the one-million-unit level for the first time.

The wire service says the local Business Times newspaper is reporting that Dataquest projects that the Chinese PC market is "poised" to expand by more than 60 percent, while the growth rate in Thailand would top 40 percent and Malaysia and Singapore 30 percent.

Analyst Janardhan Menon told the paper, "Essentially there is more computerization going on. Also, major infrastructures development projects in countries such as China and Malaysia can easily add a couple of percent to the overall growth rates."

Menon discounted what AFP termed "a popular perception" that PC prices were falling, saying, "Our data shows that the average PC buyer in Asia-Pacific is paying an increasing price for his PC."

AFP says the average PC in the region is expected to cost \$2,007 this year, up from \$1,962 last year, and will reach \$2,107 next year.

Menon says the PC market could enjoy steady growth of 20 percent to 30 percent in countries such as Malaysia, Thailand and Indonesia, depending on the rate of national development. However, he says, China and India will see the fastest growth rates, with China becoming a five-million PC market and India a 2.4-million PC market by 1999.

Searching For The Best Multimedia Pentium Notebook?

CHECK OUR REFERENCES.



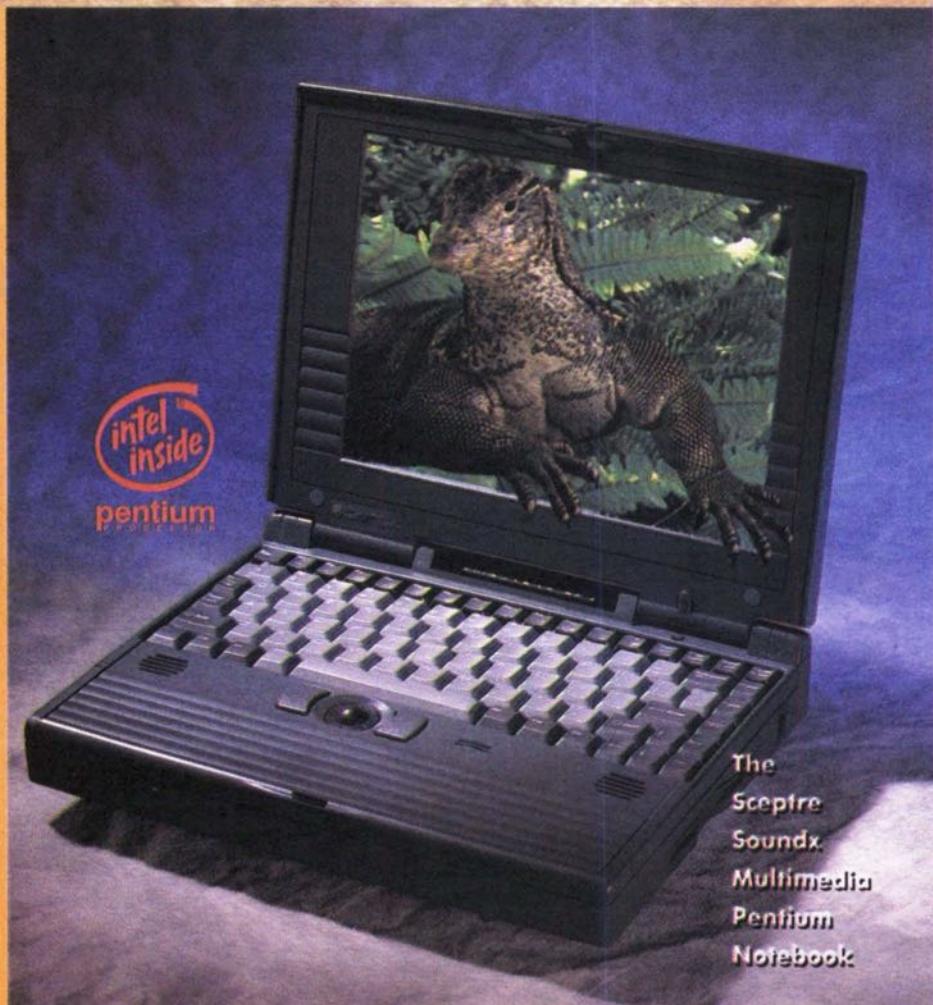
BYTE Magazine has just chosen the **Sceptre** Soundx Multimedia Pentium Notebook **BEST**

OVERALL after head-to-head comparisons with the best notebooks available.

You'll find excellence in every product Sceptre produces. That's why, year after year, we continue to win performance awards from the industry's toughest critics.

Add your voice to the growing list of satisfied Sceptre users. Call **1-800-788-2878** for the dealer nearest you.

- INTEL 75/90-MHZ PENTIUM PROCESSOR
- 10.4" DSTN/TFT WITH 256 COLORS
- PCI BUS TO INCREASE HDD SPEED
- FULL-SIZED, 86-KEY POSITIVE-TOUCH KEYBOARD WITH ENHANCED FEEL AND RESPONSE
- BUILT-IN STEREO SPEAKERS AND MICROPHONE
- BIOS USES 256K CACHE TO MONITOR HEAT TRANSFER
- 6.3 POUNDS: 10.9" x 8.6" x 1.7"
- INFRARED SERIAL PORT



Tech Data
CORPORATION

1-800-237-8931

INGRAM
MICRO

1-800-456-8000

MICROMATIX

1-800-336-5000

In the U.S.A.

LAPRO
Marketing

Vancouver (604) 244-7798
Toronto (905) 477-6363

Jaba
System
Inc.

Toronto (905) 477-6363

IN CANADA

Please call us for more information, brochures and a free "Baby Brutus."



SCEPTRE
EXCELLENCE FOR ALL THE WORLD TO SEE

© 1995 SCEPTRE Technologies, Inc. All Rights Reserved. All product and brand names are trademarks or registered trademarks of their respective companies.

Internet-Cable Link in the Works

Development of Internet services to the home using cable-TV systems is the goal of a new partnership between Netscape Communications Corp. and a start-up company backed by Tele-Communications Inc. Financial terms weren't disclosed.

The startup, called simply Home, told the Wall Street Journal it will use Netscape's Internet software as part of a proposed nationwide service.

Backed by TCI and the San Francisco venture firm Kleiner Perkins Caufield & Byers, the firm will use a modified version of Netscape's browser. Netscape President/CEO James Barksdale will join Home's board as part of the alliance.

Gates Unit Buys Bettmann Archive

For undisclosed terms, the Bettmann Archive, one of the world's largest photo collections, has been purchased by Corbis Corp., a digital media company founded and owned by the Microsoft Corp. Chairman Bill Gates.

Corbis, which acquired Bettmann from Kraus Organization Ltd., plans to digitize and catalog the 16 million photos and license them for use in computer programs and online systems.

Gates launched Corbis in 1989 to acquire photographs, artwork and other published works for use in software and other digital outlets. He has operated Corbis chiefly as a photo agency, similar to Bettmann but with a computer-age twist. It buys photographs and sells them to others in digital form, delivered on diskette or online.

Nixon CD-ROM Planned

Multimedia software publisher Graphix Zone Inc. says it is collaborating with three-time Academy Award winner Oliver Stone to produce an interactive CD-ROM based on the upcoming film, "Nixon."

Scheduled for release in March 1996, the CD-ROM will feature footage from the film, including scenes with Sir Anthony Hopkins as the late president and James Woods as

Chief-of-Staff H.R. Halderman.

According to Graphix Zone, which is based in Irvine, California, the Nixon CD-ROM "will provide both an adventurous look behind the scenes at the White House and a scholarly research vehicle to access a 'virtual Nixon library.'" Users will be able to explore never-before-seen White House rooms, including the "plumbers' office," which housed the top secret "black bag" burglary operation.

The disc will also feature historical documents from the Watergate era, as well as photos, memos, and video footage from Nixon's life and administration.

The Nixon CD-ROM will be a hybrid disc, playable on Window, Windows 95, and Macintosh platforms. The CD-ROM will also provide direct online links to a Nixon Internet home page.

IMA Moves to Cut CD-ROM Returns

The Interactive Multimedia Association will launch an industry-wide campaign on Oct. 31 to help consumers better match CD-ROM software to their computers.

The service is designed to reduce retail returns, which run as high as 30 percent for some multimedia titles.

The IMA, a trade organization representing more than 380 interactive multimedia technology providers worldwide, says its CD Match program will be provided through its World Wide Web site and other channels. The software automatically runs a check of its host PC and provides a printout of the system's capabilities. Consumers can then take the printout to a local retail outlet, compare it to the IMA-recommended uniform label that will appear on CD-ROM packages, and determine if their computer will support a particular title's requirements.

IBM Announces Layoffs

IBM Corp. is planning to cut about 1,100 employees from its U.S. operations, mostly in sales and support. Part of the consolidation includes merging nine sales support locations in the Northeast into a single site in Cranford, New Jersey.

DATAWORLD COMPUTERS LTD.
5660 VICTORIA DR. VANCOUVER, B.C. V5P 3W4

486DX Vesa System

486 Vesa MotherBoard (3Vesa, 4ISA)
4MB Ram(72Pin)
VLB SVGA CARD w/1 MB
VLB IDE Controller w/1P, 1G, 2S
1.44 MB Floppy Drive
540 MB Hard Drive
14" N.I. .28dpi SVGA Monitor
13" Tower Case
101 Enhanced Keyboard
Free Mouse w/Mouse Pad

DX4-100
\$1099

486DX PCI System

PCI MotherBoard 4ISA, 3PCI
4MB Ram(72Pin)
S3 PCI SVGA w/1MB
OnBoard EIDE Controller
I/O w/1P, 2S, 1G
1.44 MB Floppy Drive
540 MB Hard Drive
14" N.I. .28dpi SVGA Monitor
13" Tower Case
101 Enhanced Keyboard
Free Mouse w/Mouse Pad

DX4-100
\$1139



FUSION ELECTRONICS

Phone ... **604 688 9819**
Fax **604 688 9819**

SPECIAL
586/100 \$1460

486DX4/100 \$1160 Pentium 75 \$1830
Pentium 120 \$2350 Pentium 90 \$1920
Pentium 133 \$2530 Pentium 100 \$2010

THREE YEARS LIMITED WARRANTY
THIRTY DAYS PHONE TECHNICAL SUPPORT
FREE DELIVERY
\$300 IN SERVICES INCLUDED FREE WITH SYSTEM

486 CONFIGURATION

- MiniTower Case • Motherboard w/ZIF Socket, AMI Windows Bios, Green, Support up to 4 Drives • 256 Cache, 4MB RAM • SVGA VLB 1MB (up to 2MB) • 14" SVGA .28 Monitor • IDE VLB CTRL, 2S/1P/1G • 730MB HDD • 1.44 MB FDD, Supports up to 4 HDD • Enhanced Keyboard • Mouse

586 CONFIGURATION

- MiniTower Case • Motherboard VIP, ZIF @ Green Bios • 256 Cache, 8MB RAM • SVGA PCI 1MB • 15" SVGA .28. L.R. • Monitor • IDE PCI 2S/1P/1G • 730 MB HDD • 1.44 MB FDD • Enhanced Keyboard • Mouse

UPGRADES

To 8MB	+\$175	28.8 kbs V.32 Fax modem ..	+\$195	CDROM Toshiba 4X ..	+\$235
To 850 MB Hard Drive	+\$ 50	28.8 kbs Voice Fax modem ..	+\$290	Panasonic 4X ..	+\$235
To EIDE 2X 16550	+\$ 20	14.4 Voice Faxmodem ..	+\$ 85	PCI Stealth 64-888 D2MB ..	+\$130
To Sound Blaster 16 VIBRA ..	+\$ 90	USR 14.4 Fax modem ..	+\$125	PCI Stealth 64 - 968 V2MB ..	+\$290

ASK ABOUT OUR PRE-OWNED COMPUTERS & COMPONENTS
GREAT SAVINGS
PRICES SUBJECT TO CHANGE WITHOUT NOTICE

Epson Opens Web Site

PC and peripherals maker Epson has opened a World Wide Web site.

Epson says the site offers users access to news of its products and services, upgraded drivers and software, and other services relating to its PCs, printers, scanners, and other products. The site features five sections: What's New, Epson Products, Epson Connects, Press Info and Epson Contacts.

The Epson Web site is located at <http://www.epson.com>.

Sharp Claims LCD Breakthrough

Japan's Sharp Corp. says its new 28-inch thin-film transistor display is the industry's largest to-date.

Computergram International quotes Sharp officials as saying the makers see the panel being used in displays for meetings, notice boards, and educational equipment.

Tel : 323-0768

Fax : 323-0788

Business Hours:

Mon-Fri : 10:30-6:00

Sat : 10:30-5:00

Sun : Closed

System Upgrade To 486DX4-100

\$249

Free Installation

Price includes : MotherBoard, CPU, Cooling Fan & Heat Sink

**Upgrades
Repairs**

Networking

Pentium System

PENTIUM MotherBoard w/256K Cache (Triton Chipset)
8MB Ram(72Pin)
S3 PCI SVGA Card w/1MB
OnBoard EIDE Controller
Fast I/O w/1P, 2S,
1.44 MB Floppy Drive
850 MB Hard Drive
14" N.I. .28dpi SVGA Monitor
15" Tower Case
101 Enhanced Keyboard
Free mouse w/Mouse Pad

Pentium P-75 \$1659
Pentium P-90 \$1789
Pentium P-100 \$1922
Pentium P-120 \$2165

Video Cards & Monitors

Trident 8900CL, 1MB	\$85	Canon BJ-100e	\$279
Cirrus Logic 5429 VLB, 1MB	\$95	Canon BJC-4000	\$449
ATI Mach32 1MB	\$149	Brother HL-641/HL-660	\$525/730
ATI Mach64 2MB DRam	\$259	HP DeskJet 540	\$379
Diamond Speedstar pro,1MB	\$155	HP Desktop 560C	\$690
Diamond STL64, 2MB	\$279	HP 4L w/1MB (300DPI)	\$885
Diamond Viper, 2MB VRam	\$479	HP 5P w/2MB (600DPI)	\$1270
Provieu 14" NI LR 72 MHz	\$295	Raven 2405	\$229
Acer 15"17" NI, LR .28DPI	\$450/795	Raven 2407	\$335
NEC XV15/XV17	\$669/1079		
MAG DX15F/DX17F	\$520/920		

Printers

540 MB IDE	\$220
635 MB IDE	\$249
850 MB IDE	\$285
1.2 MB IDE	\$385
1.6 GB IDE	\$550

MultiMedia

Panasonic 2x CD-Rom Drive	\$80	540 MB IDE	\$220
Panasonic 574 4X CD-Rom	\$225	635 MB IDE	\$249
Discovery CD 4X	\$439	850 MB IDE	\$285
MultiMedia Package:	\$275	1.2 MB IDE	\$385
Panasonic 2x CD Rom +Soundblaster 16		1.6 GB IDE	\$550
CD Titles:95' Encarta,MsWorks,MsMoney			
MsDangerous,Creatures,MsGolf,			
GamesPack & Speakers			

Hard Drives

540 MB IDE	\$220
635 MB IDE	\$249
850 MB IDE	\$285
1.2 MB IDE	\$385
1.6 GB IDE	\$550

NoteBook

Smartbook 486DX2-66 Mono	\$2200
SmartBook 486DX2-66 DSTN Color	\$2900
SmartBook 486DX2-66 Active Color	\$4100
Configuration : 4MB Ram, 170MB HD,	
1MB Video,PCMCIA typeII/III slots,	
Built-in TrackBall	

2 Years parts and labour warranty on systems. All prices are cash and carry. Prices are subject to change without notice.

MACKIE ENTERPRISES LTD.

Getting more and more

Multi-Media Mini Speakers
 Tower Cases, Power Supplies
 EXT SCSI Case & SCSI/IDE HD Removable Rack
 Focus, Sejin and Unikey Keyboard
 SVGA Monitors
 Gigabyte Motherboard
 PC System & Upgrade
 PC Accessories: CPU Fan, Mouse etc.

Coming soon ...

PCI SVGA w/MPEG and full function MPEG decoder Card.

Please call for details

Mackie Enterprises Ltd.

#180-12868 Clarke Place, Richmond, B.C. V6V 2H1
 Tel: (604) 270-3386 Fax: (604) 270-2289

Microsoft OKs Net Distribution

Microsoft Corp. has decided to allow resellers to distribute some of its more popular titles over the Internet, a move some say could change how software is sold.

Beginning Oct. 16, several resellers, among them CyberSource Corp. of Menlo Park, California, will begin distributing 20 to 30 Microsoft programs over the Internet, including Microsoft Word, the Excel spreadsheet, and the Flight Simulator game.

US Robotics Eyes Hayes

Modem maker US Robotics Corp. is considering a bid to buy rival Hayes Microcomputer Products Inc.

The firm has filed a petition with the U.S. Bankruptcy Court in Atlanta to modify the rules for bidding on bankrupt Hayes.

"US Robotics said it is interested in buying Hayes," Reuters reports, "but does not want to comply with a proposal that requires new buyout offers to be at least \$7 million more than Diamond Multimedia System Inc.'s bid of \$158 million."

First Internet Bank Set to Debut

Security First Network Bank FSB reports that it will make banking history by opening the first full-service bank on the Internet.

The Atlanta-based institution says customers will be able to make deposits, pay bills and reconcile accounts 24 hours a day, seven days a week. The first transaction across

the public network will take place on Oct. 18 at a news conference. Security First is scheduled to hold in New York.

The bank says computer experts have been unable to penetrate the software it will use to protect customers' financial information and deposits.

Security First says it has plans to provide additional financial services, allowing its online customers to view and manage all of their financial affairs.

Subject to regulatory approval, the new services will include credit card, stock brokerage, insurance and corporate cash management capabilities.

The bank's home page is located on the World Wide Web at <http://www.sfnb.com>.

States Come to World Wide Web

U.S. governments in every state except New Jersey and Nevada have created home pages on the Internet's World Wide Web, providing information ranging from tourism to business to tips on deadbeat dads.

A study by the Public Affairs Research Institute of New Jersey Inc. says most states' home page includes a governor's message, tourist promotions, and electronic connections to state agencies and educational institutions.

Business writer Evan Ramstad of the Associated Press says government agencies have been attracted to the Internet by low expense and the relative ease of creating information there, the same selling points that have caused Web usage among businesses and individuals to explode in the last year.

MyCom Computers

Mon-Sat
10:30am-6:30pm

TEL (604) 739-2827 FAX (604) 739-2820

4244 Dunbar St, Vancouver, B.C.

Dunbar & 26th Ave.

Back to School. Back to Savings!

ACER SYSTEMS "Back to School" Pentium 90 SPECIAL



- Intel Pentium 90 MHz Processor
- Mid-Tower Acer Case
- 8 MB RAM, 850 MB Hard Drive
- 3 1/2 1.44 MB Floppy Drive
- Mouse & Keyboard
- PCI 1MB Video Card
- Quad Speed CD ROM Drive

- SoundBlaster 16 Sound Card
- 14.4 Kbps Internal Data/Fax Modem
- Deluxe Speakers
- 2-Year Warranty
- Monitor Extra
- MS CD Titles
- Windows 95 upgrade included



\$2,200

With the purchase of the above system special, you can buy one of these monitors at a great price!

SCEPTRE® Digital
\$499

15" Flat Square Tube Technology
 Digital Controls
 .28mm dot pitch
 EPA Energy Star Compliant

Special subject to product available.

DATUM
\$288

14" Microporcessor-based Monitor
 Analog Controls
 .28 mm dot pitch, non-interlaced
 EPA Energy Star Compliant

**Buy Modem here
 Get Lynx Internet
 For One Month FREE
 Details in Store.**

FUJITSU brother SCEPTRE®

Anovation P75MHz Station \$1960

- Intel Triton PCI Chip Set Architecture
- 256KB External Fast Cache
- 8MB-70ns 72Pin RAM exp. to 192MB
- 1.44MB Floppy Drive
- Western Digital 850MB Enhanced IDE Hard Drive
- PCI Enhanced IDE Controller
- 2x16550 UART Serial, 1 Bi-Directional Parallel
- ATI Mach64 PCI Windows Accelerator with 1MB DRAM (expandable to 2MB)
- Award-Winning 15" Sceptre SVGA Monitor
- 19" Mid-Size Tower Case with power supply
- 101-keys Enhanced Keyboard & Mouse
- Two Year Parts & Labour Warranty



Western Digital

P90MHz \$2065
P100MHz \$2105
P120MHz \$2435
P133MHz \$2570



pentium PROCESSOR

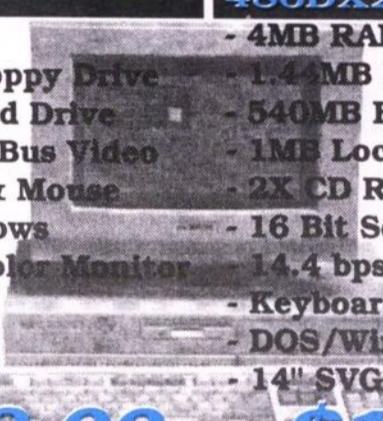
Anovation 486DX66 \$1185

- 80486PCI Main Board
- 256KB External Fast Cache
- 4MB-70ns 72Pin RAM exp. to 128MB
- 1.44MB Floppy Drive
- Western Digital 635MB Enhanced IDE Hard Drive
- PCI Enhanced IDE Controller
- 2x16550 UART Serial, 1 Bi-Directional Parallel
- Trident 9440 PCI Windows Accelerator with 1MB DRAM (expandable to 2MB)
- 14" Sceptre SVGA L/R Monitor
- 13" Mini-Size Tower Case with power supply
- 101-keys Enhanced Keyboard & Mouse
- Two Year Parts & Labour Warranty



Western Digital

486DX2-80MHz \$1190
486DX4-100MHz \$1245
486DX4-120MHz \$1265

AST 486SX-33MHz

- 4MB RAM	Packard Bell
- 1.44MB Floppy Drive	486DX2-66MHz MPC
- 420MB Hard Drive	- 4MB RAM
- 1MB Local Bus Video	- 1.44MB Floppy Drive
- Keyboard & Mouse	- 540MB Hard Drive
- DOS/Windows	- 1MB Local Bus Video
- 14" VGA Color Monitor	- 2X CD ROM
	- 16 Bit Sound Card
	- 14.4 bps Data/Fax Modem
	- Keyboard & Mouse
	- DOS/Windows
	- 14" SVGA Color Monitor

\$849.00

Recondition Model

Packard Bell 486DX2-66MHz MPC

- 4MB RAM
- 1.44MB Floppy Drive
- 540MB Hard Drive
- 1MB Local Bus Video
- 2X CD ROM
- 16 Bit Sound Card
- 14.4 bps Data/Fax Modem
- Keyboard & Mouse
- DOS/Windows
- 14" SVGA Color Monitor

\$1450.00

Limited Quantities

Anovation On Campus**Burnaby Location:****Unit 231 Student Association Center****BCIT 3700 Willingdon Avenue****Burnaby, B.C. V5G 3H2****Tel: (604) 454-0388****Fax: (604) 454-0083****Anovation P75MHz MPC \$2350**

- Intel Triton PCI Chip Set Architecture
- 256KB External Fast Cache
- 8MB-70ns 72Pin RAM exp. to 192MB
- 1.44MB Floppy Drive
- Western Digital 850MB Enhanced IDE Hard Drive
- PCI Enhanced IDE Controller
- 2x16550 UART Serial, 1 Bi-Directional Parallel
- ATI Mach64 PCI Windows Accelerator with 1MB DRAM (expandable to 2MB)
- Award-Winning 15" Sceptre SVGA Monitor
- 19" Mid-Size Tower Case with power supply
- 101-keys Enhanced Keyboard & Mouse
- Creative Labs Value CD 4x Kit includes SB16 Card, 4x CD-ROM Drive, Stereo Speakers, 11 CD Titles Plus 6 Audio Utilities

\$2350

pentium PROCESSOR

Anovation 486DX66 MPC \$1460

- 80486 PCI Main Board
- 256KB External Fast Cache
- 4MB-70ns 72Pin RAM exp. to 192MB
- 1.44MB Floppy Drive
- Western Digital 635MB Enhanced IDE Hard Drive
- PCI Enhanced IDE Controller
- 2x16550 UART Serial, 1 Bi-Directional Parallel
- Trident 9440 PCI Windows Accelerator with 1MB DRAM (expandable to 2MB)
- 14" Sceptre SVGA L/R Monitor
- 19" Mid-Size Tower Case with power supply
- 101-keys Enhanced Keyboard & Mouse
- Creative Labs Value CD 2x Kit includes SB16 Card, 2x CD-ROM Drive, Stereo Speakers, 12 Software Titles

\$1460

486DX2-80MHz \$1190
486DX4-100MHz \$1245
486DX4-120MHz \$1265

NOVEMBER SPECIAL

- Seagate Decathlon 850MB EIDE 11ms 256Kb Cache \$289.00
- Panasonic 4X EIDE CD ROM Drive 256 Kb Cache \$209.00
- US Robotics Sportster 14.4 Internal Fax Data Modem \$119.00
- 4MB (70ns)72Pin SIMM RAM W/ No Parity \$178.00

HDD & Tape Drive

1.2MB 5.25" Floppy Drive	\$6.00
1.44MB 3.5" Floppy Drive	\$43.00
Western Digital AC2635 635MB EIDE Hard Drive	\$250.00
Western Digital AC2850 850MB EIDE Hard Drive	\$293.00
Western Digital AC31200 1.2GB EIDE Hard Drive	\$415.00
Western Digital AC31600 1.6GB EIDE Hard Drive	\$545.00
Seagate ST5850A 850MB Fast ATA-2 Hard Drive	\$289.00
Seagate ST1220A 1.08GB EIDE Hard Drive	\$335.00
Seagate ST1200N 1.0GB SCSI-2 Hard Drive	\$490.00
Seagate ST32430N 2.1GB SCSI-2 Hard Drive	\$1040.00
Seagate ST15230N 4.3GB SCSI-2 Hard Drive	\$1425.00
Micropolis 4221AV 7200 rpm 2.1GB SCSI-2 Drive	\$1350.00
Micropolis 3243AV 7200 rpm 4.3GB SCSI-2 Drive	\$1820.00
Micropolis 1991AV 7200mp 9.1GB SCSI-2 Drive	\$3365.00
Colorado DJ-35 350MB Backup Drive	\$193.00
Colorado DJ-25 700MB Backup Drive	\$292.00
Colorado DJ-50 1.36GB Backup Drive	\$440.00
Conner 420MB QIC Backup with one tape	\$190.00
Conner 850MB QIC Backup with one tape	\$280.00
Conner 4.0GB QIC-Wide SCSI Backup with one tape	\$780.00

Mother Board & RAM

AMDA48DX2-66/100 PCI board w/256KB cache	\$255/315
AMDA48DX2-66/100 VL board w/256KB cache	\$200/260
Pentium 75/90 Triton PCI board w/256KB cache	\$545/650
Pentium 75/90 Triton board w/256KB pipeline cache	\$610/715
4MB/8MB/16MB 72 pin SIMM	C a l l
4MB/8MB/16MB 72 pin EDO SIMM	C a l l
1MB/4MB 30 pin SIMM	C a l l

Controller

ISA IDE HD/FD Controller with I/O	\$2.00
VLB 32 bit Enhanced IDE with Serial/Parallel	\$29.00
VLB 32 bit Enhanced IDE with UART Serial/Parallel	\$38.00
Promise EIDE BIOS Controller, 16550 UART	\$8.00
Promise 4030VL IDE Caching Controller	\$145.00
Promise 5030 PCI IDE Caching Controller	\$205.00
Adaptec 1505 SCSI ISA Kit	\$75.00
Adaptec 1522 SCSI Card	\$100.00
Adaptec 1542CF SCSI ISA Master Kit	\$360.00
Adaptec 2842 SCSI VLB Master Kit	\$330.00
Adaptec 2940 PCI SCSI Master Kit	\$365.00
Adaptec 3940 PCI SCSI Master Kit	\$590.00

Keyboards & Cases

Keytronic Windows95 Function Keys Keyboard	\$45.00
Fujitsu 4720 Enhanced 101 Keys	\$59.00
Fujitsu 8720 Enhanced 101 Keys	\$33.00
Focus 2001 Enhanced 101 Keys	\$45.00
Sejim Enhanced 101-Keys	\$25.00
Microsoft Natural Keyboard	\$119.00
Desktop with 200W Power Supply	\$75.00
Mini Size Tower with 200W Power Supply	\$59.00
Mid Size Tower with 230W Power Supply	\$79.00
Full Size Tower with 230W Power Supply	\$120.00
Server Tower with 300W Power Supply	\$235.00

Monitor

Sceptre 14" N/I,L/R 1024x768,28mm dp	\$300.00
Sceptre 15" N/I,L/R 1280x1024,28mm dp	\$465.00
Sceptre 17" N/I,L/R 1280x1024,28mm dp	\$850.00
ADI 3E 14" N/I,1024x768,28mm dp	\$345.00
ADI 4P 15" N/I,L/R 1280x1024,28mm dp	\$540.00
ADI 5EP 17" N/I,L/R 1280x1024,28mm dp	\$895.00
ADI 5AP 17" N/I,L/R 1280x1024,26mm dp	\$1070.00
Sony 15SF 15" N/I,L/R 1280X1024,25mm dp	\$685.00
Sony 17SF 17" N/I,L/R 1280X1024,25mm dp	\$1290.00
Sony 17SE 17" N/I,L/R 1600X1280,25mm dp	\$1545.00

Video Display Card

Diamond Stealth 64 Video PCI w/1MB DRAM	\$185.00
Diamond Stealth 64 Video PCI w/2MB DRAM	\$250.00
Diamond Stealth 64 Video 3200 PCI w/2MB VRAM	\$355.00
Diamond Stealth 64 Video 3240XL PCI w/2MB VRAM	\$475.00
Diamond Stealth 64 Video 3400XL PCI w/4MB VRAM	\$495.00
ATI Mach 64 Expression PCI w/2MB DRAM	\$240.00
ATI Mach 64 WinTurbo VLB/PCI w/2MB VRAM	\$360.00
ATI Mach 64 Win Turbo VLB/PCI w/4MB VRAM	\$618.00
Cirrus Logic 5434 PCI w/1MB expandable to 2MB	\$125.00
Cirrus Logic 5440 PCI w/1MB (MPEG Video)	\$125.00
Trident 9440 PCI w/1MB expandable to 2MB	\$92.00
Trident 9660 PCI w/1MB expandable to 2MB	\$138.00

MultiMedia

Creative Labs Sound Blaster 16 MCD OEM	\$108.00
Creative Labs Sound Blaster AWE32	\$365.00
Creative Labs Sound Blaster 32	\$225.00
Creative Labs Performance Kit 4x Speed	\$560.00
Creative Labs Multimedia Home 4x Speed	\$575.00
Creative Labs Discovery Kit 4x Speed	\$450.00
Panasonic 2X Speed CD-ROM Drive	\$80.00
Panasonic 4X Speed EIDE CD-ROM Drive	\$209.00
Toshiba 4X Speed EIDE CD ROM Drive	\$215.00

Modem & Mouse

14.4 S/R Internal Fax Modem w/Voice	\$89.00
28.8 S/R Internal Fax Modem	\$195.00
Diamond TeleCommander 2500XL(14.4bps)	\$280.00
Diamond TeleCommander 3500XL(28.8bps)	\$435.00
US Robotics Sportster 14.4 Int. Fax Modem	\$119.00
US Robotics Sportster 14.4 Ext. Fax Modem	\$155.00
US Robotics Sportster 28.8 V.34 Int. Fax Modem	\$260.00
US Robotics Sportster 28.8 V.34 Ext. Fax Modem	\$289.00
Microsoft Serial Mouse v.2 OEM	\$35.00
Logitech Serial Mouseman OEM	\$35.00
MicroSoft Compatible Mouse	\$13.00

Printer

Brother HL660 Laser Printer 600dpi	\$750.00
Brother HL1260 Laser Printer 600dpi	\$1680.00
Canon BJ-100	\$279.00
Canon BJ-C-4100 Color Inkjet	\$480.00
Canon BJ-C-70 Color Printer	\$495.00
Epson Stylus 800+ Inkjet 360dpi	\$335.00
Epson Stylus 100 Wide Carriage	\$735.00
Epson Stylus Color Inkjet 720dpi	\$719.00
Epson ActionLaser 1100 4ppm 1MB	\$589.00
HP 5L LaserJet, 600 dpi 4 PPM	\$699.00
HP 5P LaserJet, 600 dpi 6 PPM	\$1290.00
Raven PR-2405 24-pin, 192 cps	\$235.00
Raven PR-2407 24-pin, 200 cps	\$300.00
Raven PR-2420 24-pin, 256 cps	\$390.00
Raven PR-2467 240 cps	\$599.00

* All Systems Includes a 2 Year Parts And Labour Warranty

* All Prices Reflect 2% Cash Discount

* Prices Subject To Change Without Prior Notice

* All Prices Are Effective For The Above Two Locations Only.

All brand names and trademarks are the property of their respective owners.

Anovation On Richmond**Richmond Location:****Unit 110-11100 Bridgeport Road****Richmond, B.C. V6X 1T2****Tel: (604) 276-8898****Fax: (604) 276-9188**

Office Hours: Mon-Fri 09:30am - 6:30pm Sat 10:00am - 5:00pm Sun Closed

As Much as Most of us will Need to Know— Interactively

Compton's Interactive Encyclopedia- 1996

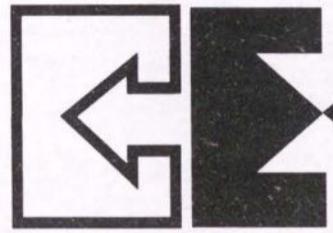
BRAND NEW SAMPLE & USED PARTS DEAD & DAMAGED UPGRADES

主機板
顯示器
機箱
磁碟機

記憶體
電腦用品

軟體
電腦升級

電腦系統



NEW SHOP
ADDRESS →

CE COMPUTER OUTLET
118-4800, No.3 Road, Richmond, B.C. Canada V6X 3A6
Tel: (604) 278-2633 Fax: (604) 278-2661

ATTN: Students, Electronic hobbyists & Smart buyers.

Build your own system or
upgrade your system from 286 to 386 to 486.
We have a huge selection of new items in-stock.

WE TAKE TRADE-INS TOO!!

STORE HOURS

Monday-Friday
11:00am - 7:00pm
Saturday
11:00 am - 6:00pm
Sunday & Holidays
closed

- ◆ NEW AND USED COMPUTER PARTS & COMPONENTS.
- ◆ WE ALSO PROVIDE SERVICE, MAINTENANCE, REPAIR AND UPGRADE OF COMPUTER SYSTEMS.
- ◆ WE PROVIDE SERVICE FOR CHANGING POWER SUPPLY COOLING FAN AND MONITOR REPAIR TOO !
- ◆ FREE ESTIMATES BEFORE ANY WORK REQUEST.

PENTIUM PCI/ISA BUS

P - 75	\$1900
P - 90	\$2050
P - 100	\$2210
P - 120	\$2480

* Intel Triton Chipset motherboard w/ 256K Cache & Fan
* 8MB RAM (72PIN)
* 850MB Enhanced IDE HDD
* 1.44MB (3 1/2") Floppy
* PCI 1MB Video Card (exp. 2MB)
* Enhanced IDE I/O with 2 FAST 16550 Serial, 1 Parallel Port
* 15" N/L R SVGA .28dp, Monitor
* 13" Mini Tower Case
* 101 Enhanced Keyboard
* Mouse & Pad

UPGRADES:

- 2X CD ROM Package	\$280
- 4X CD ROM Package	\$399
with - SB 16 Sound Card, Speakers	

- MS Encarta 95', Works, Money and more

486 PCI BUS

486DX4-100	Intel	AMD
486DX2-80	\$1385	\$1295
486DX2-66	\$1325	\$1240

* GIGABYTE PCI/ISA Motherboard
* 4MB RAM (72PIN)
* 540MB Enhanced IDE HDD
* 1.44MB (3 1/2") Floppy
* PCI 1MB Video Card (exp. 2MB)
* Enhanced IDE with 2 FAST 16550 Serial, 1 Parallel Port
* 14" N/L SVGA .28dp, Monitor
* 13" Mini Tower Case
* 101 Enhanced Keyboard
* Mouse & Pad

- With 8MB RAM	+ \$200
- With 15" N/L R. Monitor	+ \$125
- With 850MB Enhanced HDD	+ \$60

TWO YEARS PARTS & LABOUR WARRANTY FOR SYSTEMS

Company Policy

- No cash refund
- No guarantee on availability of advertised items
- Most items have limited quantity, ie first come first serve basis.
- All sales are final.

- All above prices are for cash & carry only
- No visa or cheque will be accepted
- All brand new items have 1 year warranty
- All used parts * components have 30 days warranty.
- All obsolete & damage items have no warranty.

樣品和舊電腦

舊零件

損壞的電腦和零件

全新電腦和大量零部件

Compton's Interactive Encyclopedia
—1996 edition
Compton's NewMedia
2320 Camino Vida Roble
Carlsbad, CA., 92009 USA
1-800-893-5458
about \$90

Alan Zisman

Before parents were made to feel guilty if they didn't have a computer in the home for their kids, they were made to feel guilty if they didn't have an encyclopedia. Like a computer, the encyclopedia was often sold as a needed tool for raising a child who would be successful in school— even the price point was similar (adjusting for inflation).

(And of course, while both computers and encyclopedias are nice things to have, many students raised in homes with neither do perfectly well, thank you).

Combine computers and encyclopedias, and it would seem like you'd have the perfect object to make parents feel guilty... shouldn't you buy a multimedia, CD-ROM encyclopedia, today?

Encyclopedias and CD-ROMs make a natural partnership— CDs provide the storage needed for the large amount of text included in an encyclopedia, while providing some additional space for graphics. Computer database technology makes it easy to search the encyclopedia for information— both in traditional ways, such as article title and by indexed phrases, but also in news ways— by topic for example, or even to find all articles containing a particular word. It's easy to copy and paste from the encyclopedia right into a word processed document (but teachers will still know when you're plagiarizing!) And the recent advances in multimedia let publishers add flash unobtainable in traditional print versions— sounds, animations, and video.

And while the costs of printing a finely-bound, profusely illustrated, multi-volume print encyclopedia inevitably makes it an expensive purchase, CDs are cheap to manufacture, especially if the publisher already owns the text and graphics content of the print version.

At first, CD-encyclopedias cost \$300-500, as publishers tried to keep them from competing with their text versions. Recently, however, prices have taken a tumble... it is now possible to buy a reputable CD for under \$100, or in many cases, get one bundled with a CD-ROM upgrade kit, or with a multimedia computer.



PC-TOP

COMPUTERS & ELECTRONIC CO., LTD.

486 Systems

Intel 486DX4-100 \$1275
AMD 486DX4-100 \$1195

486DX w/256K Cache
Zip socket, 3 PCI-Bus Slots
Built-in EIDE/ Fast IO
4MB RAM, 72pin, 70nsec
Panasonic 1.44 MB 3.5" floppy drive
Fujitsu 544 MB EIDE
10msec., 256k Cache, Support Mode 4 IDE
PCI-Bus SVGA Card w/1MB DRAM
14" (NI) Green Monitor
101 Enhanced keyboard
Mini 13" w/200w CSA Approved
3-button Mouse w/Pad

Pentium Systems Acer

P - 75PCI \$1999
P - 90PCI \$2120
P - 100PCI \$2215

Main board by Acer w/256K cache & 4-PCI bus slots
Built-in EIDE/Fast I/Os, "Triton" Chipset
"EDO" RAM Compatible
8MB RAM 70nsec. 72pin
Panasonic 1.44MB 3.5" floppy drive
Fujitsu 1.09GB EIDE 10msec., 256k, Support Mode 4 IDE
ATI Mach 64 w/ 1MB DRAM
Acer 15" ISO 9000 Certified, Digital, Flat
Green, NI, 0.28 dp
Mid 19" Tower w/200, Double CSA approved
101 Enhanced Keyboard
Microsoft Ver 2.0 (OEM) w/ Mouse's Pad

Notebook Computers

486 Smart Book

Intel DX 4/100 CPU

16MB Ram (Standard Simms)
520 MB Hard Drive
11.3" DSTN Screen
Built - in 2x CD-ROM
2 - Stereo Speakers
1p / 1s / 1 Video / 1 Game & Midi Interface
Carrying Case
NI MH Battery

Special \$4,250

Upgrade Options

MPEG Module Add \$750
TFT 10.2" Screen Add \$1040

Sceptre Soundx Series 1000

CPU: Intel 486DX2-66/DX4-100
Memory: 8MB RAM
Hard Drive: 540MB IBM IDE HDD
Modem: Int. 14.4 S/R/Fax
Floppy: 1.44MB FDD
Video: 1MB VL-32Bit
LCD: Dual Scan (Max1024x768 64K Color)
PCMCIA: Two Type II & One Type III
Pointing Device: 16MM - Trackball
Weight: 6.3LBs w/Battery

**486DX2-66 \$3,100
486DX4-100 \$3,450**

We Also Carry Note Books By:
TOSHIBA, NEC, SCEPTRE AND SKD GROUP

1090 Kingsway,
Vancouver B.C. V5V 3C6
Phone: (604) 879-3232
Fax: (604) 879-1266
Mon. - Fri. 10:30a.m. - 6:30p.m.
Sat. 11:00a.m. - 5:00p.m.

EC 9001C \$360
EC 9001S (NEW) \$385
CA 888/S \$560



好易通全新超薄型發聲電腦辭典
Authorized dealer of Golden Dictionary
(Mandarin/Cantonese/English/Vietnamese)

Multimedia Packages & CD-ROM Drives

Creative Labs Packages..... Call
Diamond Packages..... Call
ACER 4X CDROM + ACER 16-Bit Sound Card
+ Microsoft Bundle..... \$305
Sony 76E Quad Speed CD-ROM (IDE)..... \$225
Toshiba 5302B 4X CDROM (IDE)..... \$220
TEAC 55A 4X CD-ROM (AT-BUS)..... \$225
ACER 4X CD-ROM (IDE)..... \$209
PANASONIC 2X CD-ROM (AT-BUS)..... \$80
Sound Blaster 16 Bit OEM..... \$99

Monitors

Acer 15" Digital Flat ISO - 9001 Certified \$485
Daytele 14" (NI) Green \$310
Acer 14" (NI) Green \$320
Magravision 17 DXF 0.26 dp \$895

We also carry other brands: SONY, NEC,
Magnavision, Samsung, ADI,
Viewsonics, Mitsubishi, etc ...

Please call for every day lowest prices

Hard Drives SPECIAL

Fujitsu 1.08EB EIDE \$315
10mSec., 256K Cache, Support Mode 4 IDE
Fujitsu 544 MB EIDE \$235
10mSec., 256K Cache, Support Mode 4 IDE
WD 630MB EIDE \$255
WD 850 MB EIDE \$295
WD 1.28 GB EIDE \$405
WD 1.6 GB EIDE \$550

For others Brand Name or SCSI HDs, please call.

NEC Canon ADI brother FUJITSU

Prices are based on COD only and subject to change without notice.

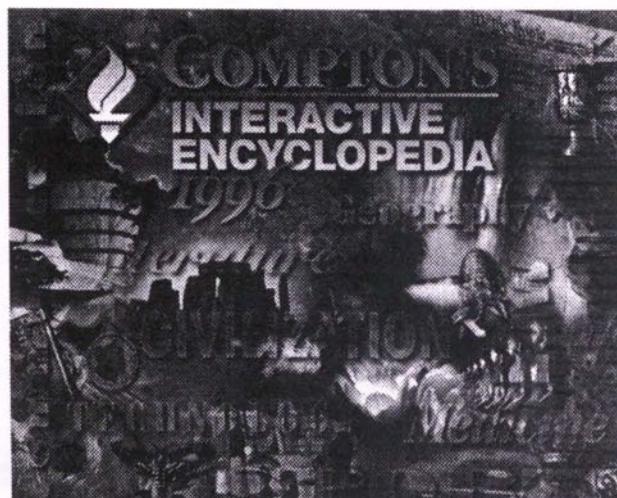
For the past few years, the big three names in the CD market have been Compton's and Grolier's (both traditional marketers of print encyclopedias) and Microsoft Encarta (based on the text of the Funk and Wagnalls). All have achieved quite respectable sales—with their ease of use and affordability knocking big holes in the traditional print encyclopedia sales. Recently, encyclopedia industry leaders Britannica and World Book have come out with CD-ROM versions, though they are currently pricing themselves out of the bulk of the market (Britannica's CD version costs over \$1000).

Compton's has a new version out—their 1996 edition for Mac and Windows Multimedia PC coming out seemingly on the same time-frame as the 1996 crop of cars. Besides updating the content, it continues to be attractive and easy to use. As well, it offers tie ins to CompuServe and America-On-Line, offering users of these services access to continually updated information.

Like its competitors, it packs a lot of information

onto a disk—the complete text of the print encyclopedia, with 35,000 articles, 8,000 pictures... 100 videos, animations, and presentations, and 15 hours of sampled and MIDI sounds. Dictionary, thesaurus, and atlas. Educational games.

Compton's adds a bonus—a second CD disk, with Now What Software's Small Blue Planet—a very attractive atlas, built on satellite photos of the earth. It's fun and easy to use, while running right from the CD—requiring no hard drive space whatsoever (a very nice feature). Compton's offers a choice: you have the option of choosing between better performance by using more of



CHEAP!
CHEAP!
CHEAP!

電腦遊戲軟件租售

PC GAMES, CD ROMS, CD Movies RENTALS & SALES

Bring in your Old Software
For Sale or Consignment

Phone for a list of
consignment software

Phone for our
everyday low price
on new and used
games



GAMES LOVERS'
LIBRARY



140-9020 Capstan Way
Richmond, B.C.

One block north of Cambie on Garden City,
next to 7-11

Tel: (604) 270-7898

Strong

COMPUTER INC.

Pentium® PCI Bus

P5-75
\$1950

P5-90
\$2100

P5-100
\$2230

Intel® Triton Chipset, Plug and Play Ready
256K external cache
8MB RAM (72 Pin)
1.44MB (3.5") Floppy Disk Drive
850MB Enhanced IDE Hard Drive
PCI Enhanced HDD Controller (control up to 4 IDE devices)

- 2 UART 16550 Serial, 1 Parallel Ports
- ATI Mach 64 PCI SVGA Card w/2MB RAM
- 15" SVGA Non-Int. Color Monitor (1280x1K, .28) L.R.
- 13" Tower Case w/200W CSA Approved Pwr Supply
- 101 Key Enhanced Keyboard
- Microsoft 2 Button Serial Mouse

486 PCI® Bus

a486DX4-100
\$1450

i486DX4-100
\$1550

256K Cache
8MB RAM, (72pin)
1.44MB (3.5") Floppy Disk Drive
540MB Enhanced IDE Hard Drive
PCI Enhanced IDE HDD Controller
(up to 4 EIDE drives)

- 2 UART 16550 Serial, 1 Parallel Port
- Cirrus Logic 5434, PCI 64bit GUI SVGA Card w/1MB
- 14" SVGA Non-Int. Color Monitor (1Kx768, .28mm) L.R.
- 13" Mini Tower Case w/200W CSA Approved Pwr Supply
- 101 Key Enhanced Keyboard
- 2 Button Serial Mouse

*** a=> AMD® CPU i=>Intel® CPU ***

Upgrades:		
RAM 8MB => 16MB	\$350	SVGA Monitor 15" => 17" \$400
HDD 540 => 850MB	\$70	Tower Case 13" => 19" \$25
850MB => 1.2GB	\$130	1.2MB 5.25" FDD \$60
SVGA Monitor 14" => 15" \$135		14.4K Internal Fax Modem w/ Voice Mail \$90
		28.8K V3.4 Internal Fax Modem \$195

*** Multi Media Upgrade Kit Add Only \$320 ***

*** (Quad speed CD ROM, 16Bit Sound Card, 3 CD Titles) ***

* Free Estimate on Repairs and Upgrades *

All Systems: 2 Years Parts and Labour Warranty

Prices subject to changes. Please call for the latest prices



101-1926 West Broadway,
Vancouver, B.C. V6J 1Z2
Tel: (604) 739-0438
Fax: (604) 739-0436
Business Hours:
Mon.-Fri. 10:00-18:00 Sat. 12:00-17:00

your hard drive, or conserving disk real estate, while getting slower performance, taking 10k, 7 megs, or 23 megs. (I chose the medium performance option, but on my 486-66, with an older double-speed CD-ROM, it was still quite usable).

It starts up with an attractive opening screen complete with background music, but there seems to be no way to jump quickly to the main screen; one of my few irritations with an otherwise well-designed product. The basic interface gives you a toolbar down the side, with a main screen split into three parts—top left, a multi-media window, for graphics, charts, tables, or videos. Below that, there's a search window—allowing for searches of all content, or just among articles, pictures, movies, sounds, or tables. The right-hand half of the screen shows the actual text, along with icons for other media objects. Unlike some other encyclopedias, you can scroll quickly through the text, because it doesn't stop to show the pictures (etc.) unless you actually click on them. Each of these windows can be enlarged, and the user can print an article or graphic, or copy them to the clipboard. You can also set bookmarks, enabling you to quickly find that spot again.

Users of print encyclopedias will be used to searching for information by article title, and maybe by using an index. Compton's adds new ways to find information—articles often include hypertext links to other, related articles. Articles can point to a spot on one of two timelines—one for world history, another just for the US, and the timeline is linked back to articles. Teachers often encourage students to make idea-webs or bubble-charts, to see what how ideas are linked—Compton's uses a similar idea in its InfoPilot view. A Topic Tree can take you from a general topic, to increasingly specific sub-topics, again showing how knowledge is related. Double-clicking on an item on an atlas map takes you directly to the article describing that place.

Another nice feature is the Editing Room—allowing a user to build a multimedia presentation combining graphics, sounds, and video from the encyclopedia with other computer-based sources. It's easy to build a script adding encyclopedia bookmarks, links to other sources, and user generated title screens. With a sound card and microphone, you can even record your own narration.

A new fun feature is Explore... this kid-oriented add-in takes you your

choice of half a dozen 'rooms'—Grandma's Attic, a Music Store, Newsroom, nature adventure, Patterns Playroom, or space ship. In each case, there's lots to explore and learn.

The encyclopedia also offers hooks to on-line services—you can connect directly from the encyclopedia to connect into Compton's Living Encyclopedia for continually updated information, games, and other frills. Software and a trial offer for America Online are on the CD, but it can also be configured to use with other on-line services.

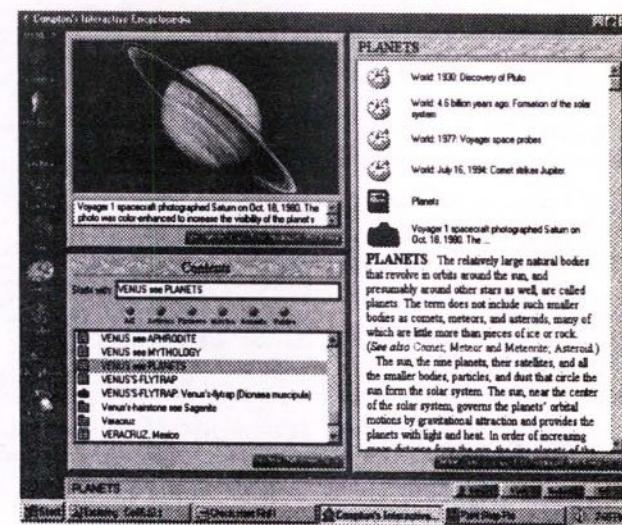
The articles in Compton's are not as detailed as their equivalents in Encarta or Grolier's—my daughter has a grade 9 science project on the planet Venus. When she printed out the article on Venus (planet) in Encarta, she got four pages plus pictures. Looking up Venus in Compton's, she was told to check Solar System (I don't know why it couldn't have done the cross-referencing automatically). That article included briefer articles than Encarta's on each planet—about two pages when she printed it out. Not only is the information less detailed, the vocabulary is also simpler.

This is not necessarily a bad thing... if you have a child in the older elementary years or junior high, you're far better off with something like this, that can be read and understood than a product with a higher intellectual level that's more likely to stay on the shelf. And with the low price of these products, if your child outgrows it, you can afford to replace it.

Compton's suggests (PC version), that users have a 486SX25 or better, with at least 4 megs of ram. The 1996 edition runs under either Windows 3.1 or Windows 95, supporting Win95's CD-Autoplay capability—letting it start up as soon as it's placed in the CD player.

I'd highly recommend it for parents and students, grades 6-9. □

About the author: Alan Zisman is a teacher and an associate editor of Computer Player; he can be reached at e-mail at azisman@wimsey.com.



COMPUTER CLEARANCE WAREHOUSE

QUALITY PRE-OWNED COMPUTERS & PARTS

We Love Trades!!

USED
COMPUTERS
& PARTS

USED MEMORY

We Buy & Sell
Call Now!

Vancouver's BEST Computer Store



250 KINGSWAY, VANCOUVER

879-7776

MONDAY-SATURDAY 10:00 AM - 6:00 PM
SUNDAY - CLOSED

Desktop Publishing Tips: Corel PHOTO-PAINT 5.0

This month we'll look at some basic functions in PHOTO-PAINT: using a paint brush and choosing paint colours.

Start Corel PHOTO-PAINT and open a new image window.

Choosing a colour

Click View, Color Roll-Up. In the roll-up, click the Color Model drop-down list. Select the CMY Color Model.

The Color Table displays a palette of CMY colours. The Paint Color box shows the current brush or pen colour. The Paper Color box shows the background colour when you start a new image window or when you use the eraser.

Click in the Paint Color box to select it. Click in the Color Table to select a colour.

You can click in one of the faces of the Visual Selector cube to select a CMY mixture. The triangles at the end of the axes represent 100% Cyan, 100% Magenta and 100% Yellow. You can also drag the markers on the axes, or enter an amount from 0 to 255 in the C, M, Y boxes at the top of the roll-up.

To mix a colour, click the brush button and click a colour in the Color Table. Drag the pointer in the Paint Area. Click another colour and drag it in the Paint Area to mix the colours. Repeat with other colours. When you have a colour you want, click the Eyedropper and click on the colour in the Paint Area to select it.

Selecting a paint brush

Click the Paint Brush Tool in the Toolbox. The pointer size indicates the thickness of the brush.

Click View, Tool Settings Roll-Up. In the roll-up, click the rounded brush to select it.

Enter a Size of 25 for the brush—it will show in the preview box beside the size. Enter 0 for Flatten. Enter a Transparency value of 0. The value varies between a maximum of 100

(transparent) and minimum of 0 (opaque).

The Density setting changes the thickness of the paint, between dense (100) and diffuse (0). You can get the same effect as a high setting by overlapping your brush strokes. Enter 100.

A high Fade Out value will make your brush "run out of paint" earlier. 0 represents a loaded brush, while at 100, the paint runs out quickly. Enter 0.

When Spacing is 1 the brush stroke is solid. A large number will produce a dotted line. At 0 the brush will skip if you drag it quickly. Enter 1.

Click the Edge drop-down list and select Hard. This will give your brush stroke a defined edge. A Soft brush has a solid centre and diffuse edge. Hold the mouse button and drag to paint.

In the Tool Settings roll-up, click the Brush Selection button. Scroll through the brush shapes and click the musical note. Set Fade Out to 90 and Spacing to 25. Choose a colour and drag the pointer to paint with this brush.

Erasing

To undo the last brush stroke, double-click the Local Undo Tool in the Toolbox. To erase parts of the last brush stroke, click the Local Undo Tool to select it. Then drag it over the brush stroke.

Click the Eraser Tool. Drag it over the image. Colours will be replaced by the currently selected Paper Color in the Color roll-up, and using the shape of the last selected Paint Brush.

About the author: *Swee-Sim Tan* is a freelance graphic artist and desktop publisher who provides training and consultation in CorelDRAW, Corel PHOTO-PAINT, Corel VENTURA, Harvard Graphics, PageMaker, and WordPerfect. If you are using CorelDRAW, Corel PHOTO-PAINT, CorelTRACE, or Corel VENTURA, call for information about purchasing How-To booklets and a collection of desktop publishing tips. Telephone: 254-5940.

Sales Service & Support

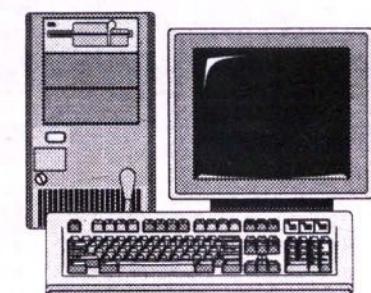
5x86-100MHz Multimedia

- 8MB RAM, 14" SVGA Monitor 0.28 dp
- 850MB HD, 1.44MB Floppy Drive
- Enhanced IDE/IO Controller
- Trident 9440 32 bit, 1MB
- 4X CD-ROM, SoundBlaster 16
- Grolier Encyclopedia, U.S. Atlas
- World Atlas, Chess Master 4000
- Animals, Speakers, Mouse

Special Pricing \$1979

Harddisk Specials!

- Quantum 850 EIDE \$265
- Western Digital 1.6 G EIDE \$519



PENTIUM Processor P90 Special

- Intel Pentium Processor
- Triton Chipset, Plug & Play BIOS
- 15" NI LowRad SVGA, .28dp
- 850MB Hard Drive
- Tseng ET 4000 W32 1meg PCI
- 1.44MB Floppy Drive, 256K Cache
- Deluxe Minitower Case 200 Watt PS
- Fast 16550 Serial Com 1&2
- Keyboard & 2 Button Mouse

8MB RAM \$1999
16MB RAM \$2339

2 year parts and labour warranty



Member of the
Better
Business
Bureau



INTERTECH

OFFICE AUTOMATION DISTRIBUTION INC.

4317 Fraser Street, Vancouver, B.C. V5V 4G4 Tel: (604) 872-7337 Fax: (604) 872-2524

HOURS: MON-FRI 10:30am - 6:00pm, SAT. 10:00am - 4:00pm

FOCUS ELECTRONIC (CANADA) INC. Since 1987

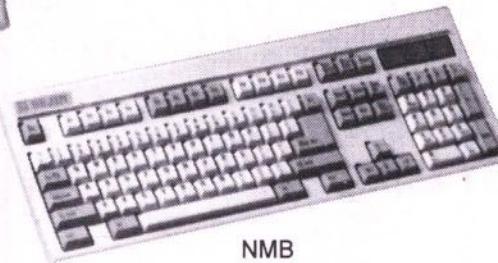
Tel: (604) 273-8086 Fax: (604) 273-3488 #145-4471 No. 6 Road, Richmond, B.C. Canada V6V 1P8



FK6200



KT7000



NMB

FK8000
Build in Calculator



Dealers enquiry only

KEYBOARD: Focus, NMB, Fujitsu, Northgate, Chicony, Unikey, Mitsumi

We are not only carry keyboard

We also carry computer peripheral, Motherboards, Power supplies, Monitor, Hard drive, Modem ... etc.

For more information, call Johnny or Stephen at (604) 273-8086



SYSTEM - PRO COMPUTERS LTD.

Tel : 583 - 9977

Fax : 583 - 9979

Pentium Green PC System			486 Green PC System		
	COD	Lease to Own		COD	Lease to Own
Pentium-75.....	\$ 1,981	\$ 79	486 Intel DX2-66	\$ 1,510	\$ 60
Pentium-90.....	\$ 2,131	\$ 85	486 Intel DX4-100	\$ 1,582	\$ 63
Pentium-100.....	\$ 2,317	\$ 92	486 AMD DX2-80	\$ 1,426	\$ 57
Pentium-120.....	\$ 2,593	\$ 103	486 AMD DX4-100	\$ 1,504	\$ 60
Intel Pentium CPU . PCI SVGA Card . Award BIOS 540M Hard Drive . 1.44 Floppy Drive . PCI I/O Card 14.4K Internal Modem . 8M Ram . SVGA 14 Monitor			. Intel CPU . PCI Video Card . Award Energy BIOS 540M Hard Drive . 1.44M Floppy Drive . PCI Card 14.4K Internal Modem . 4M Ram . SVGA 14 NI Monitor		

Motherboards w/ CPU

HardDrives

Printers

External Cache M.B.	Conner IDE 850M	\$ 351	Epson Stylus IIS Inkjet	\$ 490
Intel 486 DX2-66 VLB	Conner IDE 1.2GM	\$ 400	Epson Stylus II Inkjet	\$ 720
Intel 486 DX4-100 VLB	NEC IDE 540M	\$ 279	Epson Action Laser 1100	\$ 650
AMD 486 DX2-66 VLB	Quantum IDE 540M	\$ 289	HP 660 Inkjet (Color Upg.)	\$ 490
AMD 486 DX2-80 VLB	Samsung IDE 540M	\$ 285	HP 660C Color Inkjet	\$ 590
Pentium-75 PCI-ISA	Samsung IDE 1.08G	\$ 380	HP Laser Jet 5P	\$ 1299
Pentium-90 PCI-ISA	Seagate IDE 540M	\$ 279	Raven 2407 (Color Upg.)	\$ 309
Pentium-100 PCI-ISA	W.D. IDE 850M	\$ 350	Raven LP410-I Laser	\$ 630
Pentium-120 PCI-ISA	W.D. IDE 1.28GM	\$ 430	Raven LS-3 Laser	\$ 610

Monitors (N.L.)

CD-ROM Special

Basic Computer Courses

Provieu 14 0.28, Green	\$ 335	Multimedia Kit (I)	MS-DOS 6.22 (Basic)	\$ 90
Provieu 15 0.28, Green	\$ 490	- Toshiba 4X CD-ROM	WINDOWS 95 (Basic)	\$ 90
Provieu 17 0.28, Green	\$ 930	- Zoltix Sound Card	MS-WORD 6.0 (Basic)	\$ 90
Daytek 15 0.28, Green	\$ 480	- 4 CD Software	HARDWARE ASSEMBLE	\$ 90
Daytek 17 0.28, Green	\$ 885		INTERNET (Basic)	\$ 90
ASI 14 0.28, Green	\$ 345	Multimedia Kit (II)	國、粵、英語個別教授	
ASI 15 0.28, Green	\$ 475	- Mitsumi 4X CD-ROM	報名從速	
ASI 17 0.28, Green	\$ 899	- Sound Blaster Sound Card		
NEC 15 VX15	\$ 690	- 5 Microsoft CD Title	Prices subject to change without any notice	

AST
AUTHORIZED
RESELLERhp HEWLETT
PACKARD
AUTHORIZED RETAILER

TVM

Raven
AUTHORIZED RETAILER

NEC

Internet Email Address : syspro@digital-rain.com

SALES . UPGRADE . NETWORKING . TRAINING . PRINTING

Digital Rain (Internet, BBS) Credit Certificate available now

COMPUTER MAGAZINES :

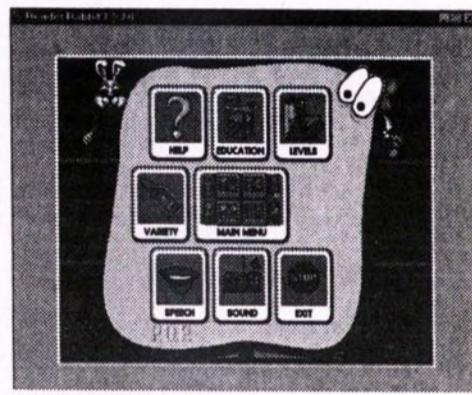
PC MAGAZINE . PC COMPUTING . PC WORLD . WINDOWS
ELECTRONIC GAMING MONTHLY . COMPUTER GAMES REVIEWAddress : Unit A 10222, 152nd Street, Surrey, B.C. V3R 6N7
(Across from GUILDFORD MALL, WAL-MART)

Business Hours :

Mon. - Fri. 9:00 AM - 6:00 PM
Saturday 11:00 AM - 5:00 PM
Sunday Closed
Holiday Closed

The Learning Company has issued a deluxe CD-ROM version of its famous Reader Rabbit series, comprised of three disks, levels one, two and three. These levels are designed for pre-readers, early readers, and children who can manage comprehension activities. There is no denying the success of these titles in school computer programs, where young children are often given time on the Macintosh or the PC to practice letter sounds, alphabet games, visual discrimination, and simple spelling games, often using the Reader Rabbit series. Reader Rabbit has given birth to Math Rabbit, and there will be more rabbits, no doubt. Let's take a look at the three new CD-ROM's, and see if The Learning Company has taken advantage of the potential of the CD-ROM format.

Reader Rabbit One presents four activities for the pre-reader who can be enticed into practicing letter recognition, and easy spelling words. I



RPC (Sales, Repair & Upgrade)



Ask us about leasing. Prices subject to change without notice. MasterCard, VISA service charge 2%.

SYSTEMS

486DX2-66 \$1280
486DX4-100 \$1350
486DX4-120 \$1380

- * 486 PCI Motherboard
- * 4MB RAM, 256KB Cache
- * Enhanced PCI EIDE HD/HD Controller
- * 540 MB EIDE Hard Drive
- * 1.44MB FD Drive
- * 25, 1P, 1G Ports
- * PCI Trident-9440 video card w/ 1Mb
- * 14" SVGA .28 Non-Interlaced Monitor
- * 101 key Enhanced Keyboard
- * 13" Mini Tower Case
- * 2 Year Parts & Labour Warranty

P-75PCI \$1800
P-90PCI \$1950
P-100PCI \$2030
P-120PCI \$2250
P-133PCI \$2430

LEASE TO OWN
A COMPUTER,
PLEASE PHONE

MONITORS & VIDEO CARDS

Daytek/ASi 14" NI SVGA .28 \$310
Daytek/ASi 14" NI LR SVGA .28 \$320
Daytek/Compaq 15" NI LR Flat SVGA .28 \$450
Daytek 17" LR Flat Screen NI SVGA \$870
ADI 4Gp LR 15" Flat Screen NI SVGA \$540
ADI 5Ep LR 17" \$920
SONY 15sf 15" \$670
NEC XV 15" \$670
NEC XV17 / Xe17 17" \$1150/\$1499
SVGA Card 256K Exp. 512K \$50
SVGA Card 1MB \$95
Trident/S3 SVGA Card VLB/PCI 1MB \$105/\$105
Matrox Millennium 2mb VRam PCI \$460
Diamond speedstar 64 1/2MB DRam ISA/MLB \$225/\$299
Diamond Stealth 64 DRAM 1/2MB VLB/PCI \$249/\$319
Diamond Stealth64 Video VRAM 2/4MB \$490/\$665
ATI Mach32 1MB DRam ISA / VLB/PCI \$169
ATI Mach64 1MB/2MB DRam ISA/VLB/PCI \$205/\$265
ATI Mach32 2MB VRam ISA/MLB/PCI \$350
ATI Mach-64 2MB/4MB VRam ISA/VLB/PCI \$380/\$595

MULTIMEDIA

16 kit sound card w/ 4x CD-ROM Kit \$300
Digital SchoolHouse 4X Kit \$430
Multimedia Home 4X kit \$540
Sound blaster 32 \$225
Sound Card w/ 2 speakers \$70
16 bit Sound Card w/ 2 speakers \$88
2x speed CD-Rom \$85
Panasonic/Sony 4x SCSI CD-Rom \$295/\$310
Toshiba/Plexter 4x SCSI CD-Rom \$450
Toshiba/Panasonic 4x Speed IDE CD-Rom \$210
Sanyo 2x Speed SCSI \$175
Adaptec SCSI CD-Rom Controller w/ Software \$85

DRIVES & CONTROLLERS

540MB EIDE / 730MB SCSI \$235/\$295
850MB EIDE \$295
1.2GB EIDE \$368
1.05GB SCSI \$460
1.4GB/ 2.1GB SCSI \$1050/\$1200
2.1GB Wide SCSI \$1350
2.5" 340MB IDE for notebook \$390
2.5" 540MB IDE for notebook \$580
1.2MB 5.25" Floppy Drive \$65
1.44MB 3.5" Floppy Drive \$45
Fujitsu 230MB optical drive w/ 1 disk \$820
Iomega 250/800MB tapebackup \$169/\$280
Colorado 250/350 parallel port backup \$385/\$410
Conner 4.0G Int/ext.tape backup \$1295/\$1465
VLB EIDE Controller W/ Multi-I/O \$45
VLB EIDE Controller w/ Enhanced I/O \$50
Adaptec 1522/1515 SCSI Ctrlr \$125/\$168
Adaptec 2842A VLB SCSI Controller kit \$350
Adaptec 2940/2940W PCI SCSI Controller \$295/\$350
Future Domain PCI SCSI Controller \$170

MOTHERBOARDS (Latest Design)

486SX-33MHz \$170
B486DX2-66 256K w/ CPU, fan \$240
I486DX2-66 256K w/ CPU, fan \$325
A486DX4-100 256K w/ CPU, fan \$300
I486DX4-100 256K w/ CPU, fan \$380
P-75 256K w/ CPU, fan \$550
P-90 / 100 256K w/ CPU, fan \$660/\$720
P-120 / 133 256K w/ CPU, fan \$960/\$1130

Printers

Fujitsu DL-700 24pln \$210
Raven 2407 24-Pin color upgradable \$280
Raven LP-410 1MB LED \$580
Raven LP-470PS Laser \$995
Brother-660 2MB 600dpi \$780
Okidata OL-400e LED \$599
Okidata OL-410e LED 600 dpi \$799
HP 320 Deskjet 600x300 dpi \$425
HP 600 Deskjet 600x300 dpi \$430
HP 850C Color Deskjet 600dpi \$890
HP LaserJet 5L 600dpi \$699
HP LaserJet 5P 600dpi \$1295
HP LaserJet 5MP 600dpi \$1450
HP LaserJet 4+4M+ 600dpi \$2090/\$2750
HP LaserJet 4V/4Si \$2800/\$4360
Canon 10sx, 100 \$299

NETWORKING

MS-Windows for Workgroups 3.11 \$85
Lantastic 6.0 starter kit \$295
Novell 3.12 upgrade (10 user) \$1650
Novell 3.12/4.1 (5 user) \$830/880
Novell 3.12/4.1 (10 user) \$1499/1520
Novell 3.12/4.1 (25 user) \$2620/2680
Eagle 2000+ 16 Ethernet Card \$105
GVC Ethernet Card \$58
cable, connector, terminator & crimping tool

MATH CHIPS

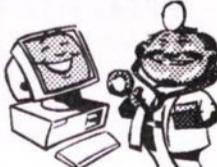
387SX 16 - 33MHz \$55
387SX 40MHz \$80
387DX 20 - 33MHz \$60
387DX 40MHz \$75

Specials

Logitech Mouse \$45
Toshiba 4x IDE CD-ROM \$210
Sony 4x SCSI CD-Rom \$310
Conner 800M TapeBackup \$280
Sanyo 2x SCSI CD-ROM \$175

We repair :

-Monitors
-Systems
-Printers



We upgrade laser printers

RPC

Computers Ltd.
1796 Renfrew St.
Vancouver, B.C.

(604) 255-1192

Fax: (604) 255-0002

Mon-Fri: 9:30-6:00 * Sat: 11:00-5:00

Lantastic

— Great system for small networks struggles to find its place in the shadow of Windows

Product Information

Product: Lantastic 6.0
Publisher: Artisoft Inc.
 2202 N. Forbes Blvd..
 Tucson, AZ 85745 USA
 1-800-233-5564
 fax: 602-670-7101
<http://www.artisoft.com>
List price: \$119 (US list) for 1 node,
\$499 (US) for five nodes



Buying your first router?

Cisco
 Telebit
 Ascend
 Gandalf
 ACC

We know routers....

Sales * Rentals * Leases
 Installation * Service

473 - 9331

Alan Zisman

You've got to feel a little sorry for Artisoft... for years, their Lantastic Network Operating System, now in version 6.0, has been the best-selling example of a small network—a network for small businesses, schools, even homes... anyone with from two to two dozen or so machines to tie together, but not needing the expense and complication of a big, server-based network like Novell Netware.

Tying together over 2.7 million machines last year, Lantastic has successfully survived competition from networking giant Novell, who clearly aimed their Lite version at the small networks that have been Lantastic's strength.

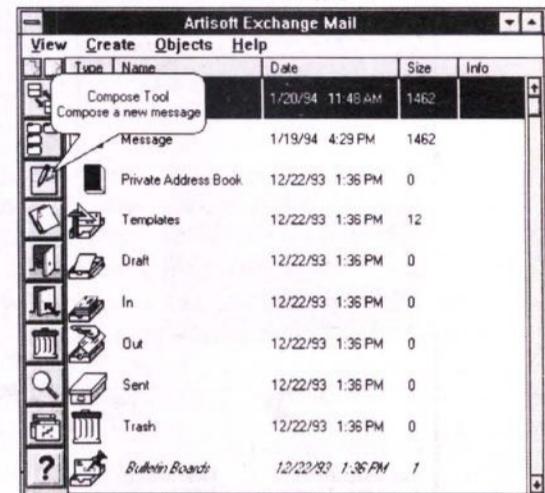
Lantastic version 6.0 is a bigger program than the previous version, which came on a single 3 1/2" diskette. It adds Windows (3.1) utilities and installation, accounting for much of the added bulk. Installing Lantastic, you can choose to set up each machine as either a Server or a Workstation—Servers share their drives, and optionally resources such as printers, across the network... workstations can use resources on servers, but do not share their own resources; a simple network could set each machine as a server, but setting up a

machine that way requires a larger DOS TSR file than setting it up as a workstation. In either case, the ram required is relatively small, compared to other networks.

Because you can set each machine up to share files and other resources with the network, Lantastic is an example of a peer-to-peer network. This is in contrast to the big networks, such as Netware, that have a dedicated file server, which provides services to a large number of passive clients.

Lantastic offers file sharing, and easy sharing of printing and CD-ROMs across the network, an obvious benefit for many small offices, and even some homes with multiple computers. In addition, it provides optional e-mail across the network, and scheduling. In a business environment, Lantastic mini-networks can be connected to Netware and Windows-based servers, at a cost of additional conventional ram. In addition, there are strong security features... you can set up multiple levels of access, providing users different abilities to write, create, or modify files in different directories on the server's drives.

As well, it includes its share of frills... users with sound cards, for example, can record voice messages, and send them across the network.



Built-in Artisoft Exchange links you to e-mail, fax and pager communication

While Lantastic is DOS-based, it works well under Windows 3.1, including a full collection of Windows utilities, both for controlling the network, and for e-mail, scheduling and other functions.

Because Lantastic is aimed at small networks, primarily in smaller businesses, it has to be usable by companies that lack a trained and dedicated Network Manager, as you'll often find babysitting the big corporate networks. And it pretty much succeeds. If you have no networking background, you really should look through the documentation before diving in and installing the software, but everything is pretty well-explained; there's "A Basic Guide to Everyday Networking", as well as a bigger



Pentium 100 (Internet Ready)

8MB Memory
 1.2 GB Hard Drive
 14.4 Fax Modem
 15" Sceptre SVGA color monitor, NI, LR
 FD, KB, MS mouse, case



\$2288

486DX4-100 workstation

4 MB Memory, 850 MB Hard drive
 14" SVGA color monitor, NI
 FD, KB, MS Mouse, Case

\$1388

Special with system

HP Color Scanner IIcx \$1199
 Accpac Plus GL/AR \$499ea



Free

OS/2 Wrap or Win95
 & Delivery

5 years warranty on labor & 2 years warranty on parts.
 Third year parts warranty, add \$50, First year on-site warranty, add \$70.

Upgrade Your Systems

Memory Upgrade (Can't run some programs? Out of memory?)
 4* 1MB SIMM (30pin) \$219
 1* 4MB SIMM (72pin) \$209
 1* 16MB SIMM (72pin) \$699

4* 4MB SIMM (30pin) \$699
 1* 8MB SIMM (72pin) \$375
 Macintosh 4MB SIMM \$239

Hard Drive Upgrade (Not enough space to install new program?)
 850 MB/ 1.2 GB / 2.1 GB \$299/389/1259

Internet Upgrade (Super information highway?)
 14.4 Fax Modem \$88
 28.8 Fax Modem \$238

Multimedia Upgrade (Access CD-ROM information?)
 CD-ROM Drive 2x /4x /6x \$115/235/649
 Creative SoundBlaster 16 /AWE32 \$129/249
 PhoneBook /Fax Book (CD) \$35/45
 Bundle: 4x CD-ROM/SB16/Spks/MS works.. \$349
 Bundle: 2x CD-ROM/SB16/Spks/MS works .. \$229

Contract Service

System Maintenance
 Network Service
 Programming
 Emergency Response



Check our FaxBack **681-7771**
 or BBS for details

Free

Estimates

Maple Oak Computer Solutions Inc.

314 W. Pender St. Suite 202, Vancouver, BC V6B 1T1
 Tel: 681-3770/3792
 Fax: (604) 681-3739
 BBS: (604) 681-4408

Business owners!

If you operate a business and own a computer, you can now take advantage of this powerful program to handle your payroll.

POWERPAY

The Ultimate Payroll Program

Learn to operate in 30 minutes or less!

- Simple Key Strokes
- Menu-driven Selections
- Form Data Entries
- Help Is Just One Key Stroke Away

Flexible

- Chooses pay period and pay method individually for each employee

Powerful

- Captures pertinent information for summary reports

Key Features:

Pay periods

- Weekly, Monthly, etc.

Pay methods

- Monthly Salary, Hourly Pay, Commission

Reports

- Revenue Canada Remittance
- Monthly Employee Summary etc.

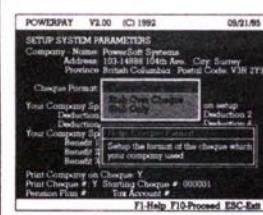
Windows version coming soon!



PowerSoft Systems Ltd.

Vancouver Office
103-14888 104th Ave.
Surrey, B.C.
Canada V3R 1M4
Phone: (604) 582-7488
Fax: (604) 582-7399

Toronto Office
3-44 East Beaver Creek Rd.
Richmond Hill, Ontario,
Canada L4B 1G8
Phone: (905) 886-1688
Fax: (905) 886-2650



Benefits and Deductions

- Six Benefits (Four Customized)
- Nine Deductions (Six Customized)
- GST Support, etc.

Other

- Advance Cheque Handling
- Posts Data On-Line
- T4 Production

System Requirements:

512K memory, DOS 2.0 or higher, hard disk, 5.25" or 3.5" floppy drive, color or mono-chrome monitor. Runs on IBM and 100% compatible. Supports all popular printers.

reference manual. Artisoft's phone support is good—though you have to pay for the long distance call to Arizona.

Everything I've mentioned sounds good... so why should we be feeling sorry for Artisoft?

The big problem isn't with Lantastic—it works as advertised, and fills a useful market niche. In many ways, however, this niche is disappearing before their eyes. Starting with Windows for Workgroups, basic peer-to-peer networking has been included in many users' operating environment.

If you bought Windows for Workgroups for the speed increase in 32-bit File Access, you have peer-to-peer networking at the same time. And

if you upgrade either that version of standard Windows 3.1 to Windows 95, you get peer-to-peer networking whether you need it or not.

Lantastic provides superior security, more options for protecting server files and directories, and fancier print sharing options than either Windows for Workgroups, or Windows 95. But that distinction may not mean much to many potential customers.... Before, if you wanted a simple network, you had to buy a dedicated network program—and in most cases, that meant Lantastic. But now, the basic networking provided right in the operating system package may prove enough for many users.

TANGENT COMPUTERS
天鈞電腦公司

Tangent Special!!

Intel Pentium 75
Super Special for **\$2,238**



FREE Windows 95 with system purchased

天鈞電腦教室，有專業老師，標準教室，設備齊全，提供以下精致教學：

- 兒童電腦班
- 暑期速成班
- 應用程式班
- 成人媽媽班
- Windows 95班

3-5人一班，時間彈性，隨時報名。

4MB RAM (72pin) 70ns for \$175
Canon BJC-4000 Color Printer \$460

Prices subject to change without notice.

2221 West Broadway, Vancouver, B.C. V6K 2E4 (Free underground parking)

Tel: (604) 737-9918 Fax: (604) 737-9928

Business hours: Tue.-Sat. 10:00am-6:00pm, Sun: 12:00am-6:00pm; Mon.: Closed

Artisoft has promised a Windows 95 version in a few months—it's currently being beta tested. And they have promised that it will include an installable file system—perhaps answering one complaint many power users have had about Win95... it's continued reliance on the antiquated DOS FAT file system. Certainly, this will provide more features than Windows 95's core networking. We'll have to see whether that's enough to allow Artisoft to maintain Lantastic's position as the most commercially suc-

cessful small networking software.

If you're sticking to DOS or Windows 3.1 for the foreseeable future, and you want to share computer resources around the office or small workgroup, the purchase of a few ethernet cards and copies of Lantastic may be a good solution... but if you're planning an upgrade to Windows 95, you may find it meets your needs. □

About the author: Alan Zisman can be reached by e-mail: alan_zisman@computer-player.com



C.C TECH COMPUTERS

504 EAST BROADWAY VANCOUVER, B.C. V6T 1X4
ALL SYSTEM WITH TWO YEARS PARTS & LABOUR WARRANTY

TEL: 604-8767983 FAX: 604-8767984
BUSINESS HOURS: 10AM TO 6PM MON-SAT

FREE 14.4 INTERNAL SUPER VOICE FAX/MODEM
WITH PURCHASE SYSTEM "A" & "B"

PENTIUM TRITON

GIGABYTE MOTHER BOARD

256 KBCACHE, PNP

8 MB RAM

850 MB EIDE HDD

2*16550S, 1* PARALLEL PORTS

ATI MACH64D WINBOOST 2MB

15" MAG DX15F MONITOR

1.44 MB FLOPPY DRIVE

101 ENHANCED KEYBOARD

TOWER CASE (230 WATTS)

MICROSOFT OR LOGITECH MOUSE

4 SPEED CD ROM

SOUND BLASTER 16 CARD

SPEAKERS (P.M.P.O 60W)

75/90MHZ--\$2390/2490

100/120MHZ--\$2590/2890

SONY 15" +\$250, ADI 17" +\$380, 17" MAG/SCEPTRE +\$430

PENTIUM TRITON

ASUS MOTHER BOARD

256 KBCACHE, PNP

16 MB EDO RAM

1.2 GB EIDE HDD

2*16550S, 1* PARALLEL PORTS

DIAMOND STEALTH PCI 2MB

15" MAG DX15F MONITOR

1.44 MB FLOPPY DRIVE

101 ENHANCED KEYBOARD

TOWER CASE (230 WATTS)

MICROSOFT OR LOGITECH MOUSE

4 SPEED CD ROM

SOUND BLASTER 16 CARD

SPEAKERS (P.M.P.O 60W)

75/90MHZ--\$2850/2950

100/120MHZ--\$3050/3350

4SPEED CD ROM -- \$ 190
CANON BJ100/BJC400 -- \$299/459
ATI MACH64D 1M/2M -- \$170/230
ATI MACH64V 1M/2M -- \$ 340/560
DIAMOND STEALTH 1M--\$ 180
DIAMOND STEALTH 2M--\$240
520/850MB/1.2G HDD--\$230/290/380
14" MEGA/SCEPTRE -- \$ 295/315
15" MEGAIMAGE FLAT -- \$400
15" SCEPTRE N/L/R -- \$ 460
15" COMPUPANNER -- \$ 440
15" MAG DX15F -- \$ 490
15" SONY SF -- \$680
17" ADI MICROSCAN SEP -- \$ 870
17" MAG DX17F (0.26) -- \$ 910
17" SCEPTRE (0.26) -- \$930

486 PCI SYSTEM

GIGABYTE MOTHER BOARD

AMD CPU

256 KB CACHE

4 MB RAM

540 MB EIDE HDD

1.44 MB FDD

1MB PCI SVGA CARD

14"SCEPTRE MONITOR

2*16550S, 1*PARALLEL

MOUSE & PAD

ENHANCED KEYBOARD

TOWER CASE

80MHZ -- \$ 1150

100MHZ -- \$ 1190

CALL FOR MEMORY SPECIAL

PENTIUM TRITON

GIGABYTE MOTHER BOARD

256 KBCACHE, PNP

8 MB RAM

850 MB EIDE HDD

2*16550S, 1* PARALLEL PORTS

DIAMOND STEALTH PCI 1MB

14" SCEPTRE MONITOR

1.44 MB FLOPPY DRIVE

101 ENHANCED KEYBOARD

TOWER CASE (230 WATTS)

MICROSOFT OR LOGITECH MOUSE

75/90MHZ--\$1750/1850

100/120MHZ--\$1950/2150

1MB/4MB/8MB/16MB32MB

CompuCanada

Computer Inc.

#200-2940 Main Street,
Vancouver BC, V5T 3G3
Tel: (604) 872-6066
Fax: (604) 872-0288
Business Hours:
Mon.- Sat. 9:00-18:00

The Last Chance Back to School Sale!

Upgrade

Upgrade

The lowest price upgrade
in this season!!!

Upgrade to **DX2-66MHz** System from as low as **\$75**

Upgrade to **DX2-80MHz** System from as low as **\$80**

Upgrade to **DX4-100MHz** System from as low as **\$115**

Upgrade to **Pentium 100MHz** System from as low as **\$245**

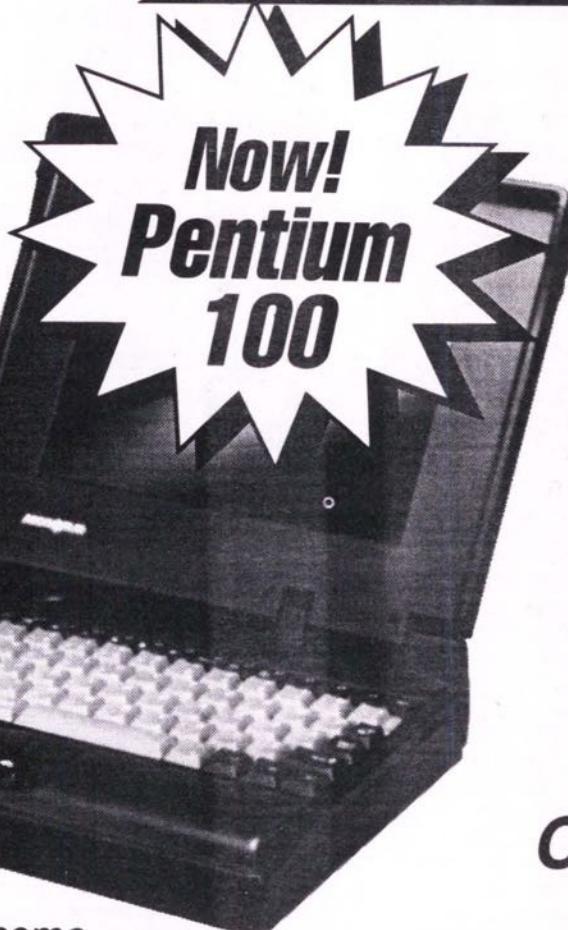
Distributors of High Performance Notebooks

... and Universal Notebook Peripherals

**THE MOST POWERFUL
NOTEBOOK
MONEY CAN BUY!**

EUROCOM®

Intel Pentium 100, 90 or 75 MHz
(Intel 486 to DX4-100 avail)
Built-in 16-bit Sound System
Removable Hard Drive to 1.3GB
Display 1024x768, 64,000 colours
Type IV PCMCIA slot
Hot Swap NiMH batteries
High speed 2 ser/1 par
Large Trackball
Up to 40MB RAM
256K Cache



Dealer Enquiries Welcome

Frequently Asked Questions:

Windows 95 Basic

Information from Microsoft Corp.

the [CombineVxDs] section of the file into one file called Vmm32.vxd. Combining these drivers provides faster startup times.

- Setup renames all the files that were in use during the first portion of Setup. For example, Setup renames the User32.tmp file to User32.exe and renames the Command.new file to Command.com.

- Setup makes a backup copy of the registry for troubleshooting purposes.

After these tasks are accomplished, Setup starts the Windows 95 graphical user interface (GUI) and completes the installation process by converting program groups, setting up the Help system, and setting your location and time zone. If I run Setup over an existing Windows 95 installation, I receive the following two options:

- Restore Windows files that are changed
- Copy all Windows files again

How do I make backup copies of my original Windows 95 disks before I install Windows 95?

Windows 95 disks are Distribution Media Format (DMF) disks and are not compatible with the MS-DOS COPY and DISKCOPY commands. You cannot create backup copies of the Windows 95 disks.

What happens if the power fails or if my computer restarts during Setup?

Windows 95 Setup has a feature called Safe Recovery. Depending on where Setup was interrupted, you may be able to simply turn your computer off and back on, run Setup again, and choose Safe Recovery when you are prompted.

What do I do if Setup stops responding (hangs) while it is detecting the hardware in my computer?

If Setup hangs while it is detecting the hardware in your computer, turn your computer off and back on, run Setup again, and choose Safe Recovery when you are prompted.

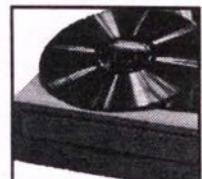
What is Setup doing when I see the "Getting ready to run Windows 95 for the first time" screen?

After Setup restarts your computer, it must complete the installation process. Setup accomplishes the following tasks while the "Getting ready to run Windows 95 for the first time" screen is displayed:

- Setup processes the Wininit.ini file and combines all the virtual device drivers listed in

CD-ROM for Notebooks

Connects to Any PC in Seconds - Anywhere!



- Double Speed Drive
- Parallel Port / SCSI Connect
- Printer Pass-through
- Kodak Photo CD Compatible
- High Quality Audio Output
- Multi-session Capable

DataPen Scanner/OCR

Connects to Any Notebook or PC



- Up to 100 char/sec., 99% accuracy
- Parallel Port Connection
- Uses keyboard power or battery
- 2.7 ounces of Convenience!

PCMCIA, Parallel, Serial, Other

• Car Adapters	• Network Adapters
• Fax/Modems	• Security Locks
• Floppy Drives	• SCSI Adapters
• Game Port	• Sound Device
• Hard Drives	• Tape Backup
• Keypads	
• Memory	



IMPAQ
TECHNOLOGY INC.

5986 EAST BOULEVARD
VANCOUVER, B.C.
CANADA V6M 3V4
TELEPHONE (604) 261 1800
FACSIMILE (604) 263 9201

Call IMPAQ Now!
261-1800

How do I install a feature of Windows 95 that I did not install originally?

If you want to add or remove a Windows 95 component, use the Add/Remove Programs tool in Control Panel. On the Windows Setup tab, click the items you want to add or remove.

Setup seems to take just as long no matter which option I choose. Why?

Both of these options verify the validity of Windows 95 files. Verifying the Windows 95 files takes as long as an original installation because Setup must open each cabinet file to verify the Windows 95 files. Setup uses the Setuplog.txt file to determine which files to check and marks each good file with an "S." This mode also rebuilds the Vmm32.vxd file and recopies any file with a lost long filename.

Why does Setup tell me I am running virus-protection software when I cannot find any on my computer?

Some computers have built-in virus protection. If virus protection is enabled in your computer's CMOS settings, Setup cannot continue. Please contact your hardware vendor for information about temporarily disabling this feature.

Is there a way to remove Windows 95?

Yes. To do so, you must choose to save your computer's system files on the hard disk during Setup. You cannot store the "uninstall" file on a network drive or floppy disk. To remove Windows 95, use these three steps:

1. Click the Start button, point to Settings, and then click Control Panel.
2. Double-click the Add/Remove Programs icon.
3. On the Install/Uninstall tab, click Windows 95, and then click Remove.

You can also remove Windows 95 by starting your computer with the Windows 95 Startup Disk and then typing "uninstal" (without the quotation marks) at the command prompt.

NOTE: You are not prompted to save the system files during Setup if any of the following conditions apply:

- You are installing Windows 95 in an empty directory.
- You are not running MS-DOS version 5.0 or later.
- You are reinstalling Windows 95 over itself.

I am not having any problems with Windows 95. How do I delete the "uninstall" files created by Setup?

To delete the "uninstall" files and free disk space, use these three steps:

1. Click the Start button, point to Settings, and then click Control Panel.
2. Double-click the Add/Remove Programs icon.
3. On the Install/Uninstall tab, click Old Windows 3.x/MS-DOS System Files, and then click Remove.

Once you delete these files, you cannot use the Uninstall tool to remove Windows 95.

Is there an Administrative Setup for network installations?

The /A and /N Setup switches have been replaced by the Netsetup tool. This tool is available in the CD-ROM version of Windows 95. Network administrators can use this tool to set up a shared copy of Windows 95 that others

can use to set up local or shared Windows 95 installations. Users can also create custom scripts to automate the Setup process from the shared copy of Windows 95.

What versions of MS-DOS and Microsoft Windows can I upgrade to Windows 95?

You can upgrade Windows version 3.0 or later, Windows for Workgroups version 3.1 or later, or MS-DOS or OEM-DOS version 3.2 or later.

Can I install Windows 95 on a computer that dual-boots Windows NT and MS-DOS?

Yes. To install Windows 95 on a computer that dual-boots Windows NT and MS-DOS, start the computer in MS-DOS and run Setup either in Windows 3.1 or at an MS-DOS prompt. You cannot install Windows 95 in a directory with a shared Windows 3.1 and Windows NT configuration. In this situation, you must install Windows 95 in a different directory.

If your computer boots Windows NT, you must configure the computer to dual-boot MS-DOS and Windows NT and follow the instructions in the paragraph above. If you start the computer from an MS-DOS disk and then run Setup, you will no longer be able to boot Windows NT. However, you can restore Windows NT by starting the computer from the Windows NT Boot/Repair disk and then selecting the Repair option.

A-TECH COMPUTERS

3092 Cambie St. Vancouver, B.C. V5Z 2V9

Tel: 877-1812
877-1863
Fax: 877-2223

Tues. - Sun. : 10:00am-6:00pm
Monday Close



Back to School



Super Special

Pentium (Triton)

P - 75 w/256K \$2399
P - 90 w/256K \$2549

PCI/ISA Multimedia

P - 100 w/256K \$2699
P - 120 w/256K \$3049

- * Intel Pentium CPU & Award BIOS
- * GIGA BYTE Mother Board (Green)
- * 8MB RAM (Up to 128MB) 72Pins
- * 850MB Hard Drive
- * 3.5" Floppy Drive (1.44MB)
- * PCI Video Card 1MB (2MB Max.)
- * Enhanced IDE PCI
- * CD-ROM Drive (Quad Speed) 4x
- * Sound Blaster 16 Bit & Speakers
- * Majesty 19" Tower Case
- * 250W Temp. Control Power Supply

- * Fax/Modem 14400 (int.) Voice
- * 101 Enhanced Keyboard
- * 15" SVGA Monitor L/R (Non-Int) .28mm
- * Microsoft Home Bundle CD Titles:
- * MS Encarta 95' Encyclopedia
- * MS Works 3.0
- * MS Money
- * MS Golf
- * MS Dangerous Creature
- * MS Best of Entertainment Pack
- * Mouse & Pad

PCI/ISA Bus (Basic)

P-75/90 w/256K..\$1688/\$1838
P-100 w/256K.....\$1988
P-120 w/256K.....\$2338

- * Intel Pentium CPU & Award BIOS
- * PCI Green Mother Board
- * 8MB RAM (Up to 128MB) 72Pins
- * 635MB Hard Drive
- * 3.5" Floppy Drive (1.44MB)
- * PCI Video Card 1MB (2MB Max.)
- * Enhanced PCI IDE
- * 13" Tower & CSA Power Supply 200W
- * 14" Non-Int. L/R SVGA Monitor .28mm
- * 101 Enhanced Keyboard
- * Mouse & Pad
- * CPU Fan

PCI/ISA Bus (Multimedia)

P-75/90 w/256K..\$1888/\$2038
P-100 w/256K.....\$2188
P-120 w/256K.....\$2538

- * Intel Pentium CPU & Award BIOS
- * PCI Green Mother Board
- * 8MB RAM (Up to 128MB) 72Pins
- * 635MB Hard Drive
- * 3.5" Floppy Drive (1.44MB)
- * PCI Video Card 1MB (2MB Max.)
- * Enhanced PCI IDE
- * CD-ROM Drive (Double Speed) 2X
- * Sound Blaster 16 Bits & Speakers
- * 19" Tower & CSA Power/200W
- * 14" Non-Int. L/R SVGA Monitor .28mm
- * 101 Enhanced Keyboard
- * Mouse & Pad
- * CPU Fan

Special!!

WESTERN DIGITAL

HARD DISK

850MB \$289.00

1.2 GB \$439.00

HEWLETT PACKARD

HP 5L \$699.00

HP 660C \$559.00

Fax/Modem

14.4 KB V.32 Internal

\$69

28.8 KB V.34 Internal

\$189

Panasonic 4X CD Rom Sound Blaster 16 Bit & Speakers

Microsoft Home Boundle CD Titles:

- * MS Encarta 95 Encyclopedia
- * MS Works 3.0
- * MS Money
- * MS Golf
- * MS Dangerous, Creature
- * MS Best of Entertainment Pack

\$419.00

Two Years Parts & Labour Warranty For Basic Systems

Price Subject To Change Without Notice.

Can I install Windows 95 and still boot MS-DOS and Windows 3.1?

Windows 95 supports booting the earlier version of the operating system if you are using MS-DOS version 5.0 or later or IBM(R) PC-DOS version 5.0 or later. You cannot boot any version of DR DOS. When you install Windows 95 in a new directory, Setup automatically makes the required adjustments so the computer can dual-boot Windows 95 and MS-DOS. To

boot MS-DOS on a Windows 95 computer with dual-boot enabled, press F4 or F8 when you see the "Starting Windows 95" message.

If you install Windows 95 in a new directory, you must reinstall all your Windows-based programs for them to run properly in Windows 95. If you upgrade your earlier version of Windows to Windows 95, you do not need to reinstall your Windows-based programs because Windows 95 retains your settings.

When I run Windows 95 Setup in Windows 3.0, Setup tells me that it requires a newer version of Windows. How do I upgrade Windows 3.0?

To upgrade Windows 3.0 to Windows 95, run Setup from MS-DOS and choose to install Windows 95 in the same directory as Windows 3.0.

I upgraded my installed versions of MS-DOS and Windows to Windows 95. How can I boot my earlier version of MS-DOS?

Although you cannot run the earlier version of Windows, you can boot the earlier version of MS-DOS. To do so, use the following three steps:

1. Type the following command at an MS-DOS prompt to remove the system, hidden, and read-only attributes of the Msdos.sys file:

attrib c:\msdos.sys -s -h -r

2. Use a text editor (such as Notepad) to edit the Msdos.sys file and add the following line to the [Options] section of the file:

BootMulti=1

3. Restart your computer and press F4 or F8 when you see the "Starting Windows 95" message.

NOTE: When you boot an earlier version of MS-DOS, some of the MS-DOS commands may not work. This behavior occurs because Windows 95 removes some MS-DOS utilities.

Can I install Windows 95 on a computer running IBM OS/2?

Setup does not run in OS/2. However, you can install Windows 95 on a computer running OS/2 if you boot MS-DOS and run Setup from the MS-DOS prompt.

If you use OS/2 Boot Manager to choose operating systems at startup, note that Windows 95 Setup disables Boot Manager to ensure that it can restart the computer and complete the installation. You can reactivate Boot Manager by running the FDISK tool that is shipped with Windows 95.

If you do not use OS/2 Boot Manager, you must configure your computer to use Boot Manager and then follow the instructions above.

Does Windows 95 Setup work on a hard disk compressed with Stacker?

Yes. Windows 95 is compatible with Stacker version 2.0 or later, and with all versions of SuperStor™. Before you start Setup, make sure there is at least 1.5MB of free hard disk space on the host drive, or 8 MB if you use a permanent swap file. If there is not enough free space on the host drive, you must run a utility from the compression software's manufacturer to increase the amount of free hard disk space on the host drive.

Can I install Windows 95 on a hard disk partitioned with OnTrack Disk Manager?

Yes. Windows 95 is compatible with Disk Manager and even provides a protected-mode driver for Disk Manager version 6.03 or later. If you use Disk Manager version 6.03 or later, Windows 95 automatically uses its protected-mode driver.

After I set up Windows 95, I cannot access my CD-ROM drive. What do I do?

If your CD-ROM drive is not recognized by Windows 95, use the following steps:

1. Make sure the correct real-mode driver for the CD-ROM drive is installed on the hard disk. This driver is normally shipped with the CD-ROM drive kit. If you do not have this driver, please contact the CD-ROM drive manufacturer.

**INFOWAVE COMPUTER INC.**

Tel: (604) 273-1368 Fax: (604) 278-5268

1780-4311 Hazelbridge Way, Richmond, BC V6X 3L7

(Within N-E corner of Parker Place Shopping Centre, Please see map below)

Store Hours:
Mon-Sat: 10-7
Sun: 11-6

Guarantee Best: Quality+Service+Price !**ICI Pentium-90**

Intel Pentium 90MHz CPU
PCI Local Bus/256K Cache
8MB RAM / Up to 128MB
850MB Enhanced IDE HDD
1.44MB 3.5" FDD
Enhanced IDE & Fast I/O
PCI 1MB SVGA Card
14" N/L/R SVGA Monitor
101 Enhanced Keyboard
Mid-size Tower Case
MS-Comp. Mouse + Pad

W/ 4x CD-ROM

Panasonic 4x CD-ROM
SoundBlaster 16 Sound Card
Dual Shielded Stereo Speakers

P-100/Triton: +100

P-120/133 Triton: +\$500/\$700
16MB RAM (from 8MB): +\$360
1.2GB HDD (from 850MB): +\$90

**ICI 486DX2-80**

486DX2-80MHz CPU
VESA Local Bus/256K Cache
4MB RAM / Up to 64MB
540MB Enhanced IDE HDD
1.44MB 3.5" FDD
Enhanced-IDE/Super I/O
VLB 1MB SVGA Card
14" N/L/R SVGA Monitor
101 Enhanced Keyboard
Minitower Case
MS-Comp. Mouse & Pad

W/ 2x CD-ROM

Panasonic 2x CD-ROM
SoundBlaster 16 Sound Card
Dual Shielded Stereo Speakers

486DX4-100: +60

Upgrade to PCI Local Bus: +\$40
8MB RAM (from 4MB): +\$180
850MB HDD (from 540MB): +\$50

**CD Titles**

Try Before you buy

Edutainment

3D Dinosaur	28
Animals, San Diego Zoo	19
Arthur's Teacher Trouble	23
Carmen Sandiego	28
Forever Growing Garden	28
Gus Goes To Cybertown	18
Just Grandma And Me	23
Matt Drill (Floppy)	48
Mavis Beacon Typing for Kids	28
MS Dangerous Creatures*	28
Musical Instruments	25
Peter Pan/Eagle Eyes	22
Pinocchio	25
Power Rangers	25
Scooter Magic Castle/Eagle Eyes	22

Encyclopedia & Tools

American Heritage Talking Dictionary	28
Compton's Encyclopedia 95	29
Grolier's Encyclopedia/Win V6.0	28
Mathematics Encyclopedia	28
Mathematics Library	32
MS Ancient Lands*	38
MS Encarta '95*	68
MS Works 3.0 / MS Money 3.0*	48
Webster's Interactive Encyclopedia	28

Human Body & Health

Complete Guide to Drugs	32
Complete Guide to Symptoms	32
Family Doctor 3rd Ed.	25
Human Body	28
Mayo Clinic-Family Health Book	28
Mayo Clinic: Family Pharmacist	28
Mayo Clinic: Sports Health & Fitness	28
Mayo Clinic: The Total Heart	28
Safety Monkey	28
Virtual Body	28
Welcome to Bodyland	28
What is a Belly Button	28

Games

7th Guest	24
Aces of the Pacific	28
Day of Tentacle	28
Indiana Jones & the Fate of Atlantis	25
Journeymen Project Turbo	28
Kings Quest VII	39
Lord of the Ring	28
Mega Race	25
Menzoberranzan	29
MS Golf*	28
Nascar Racing	39
Outpost	29
Panzer General	29
Quantum Gate	25
Rebel Assault	33
Return to Zork	25
Sam & Max Hit the Road	33
SimCity 2000	32
StarTrek 25 Anniversary	25

Multi Languages

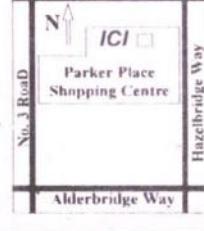
300 Poems (Tan Dynasty)	32
Around the World in 80 Days	28
Chinese Folk Arts	28
Chinese Proverb Stories	32
Conversations in Six Languages	28
English Learning Plaza	28
Fairy Tales in 5 Languages	28
Learning English through Games	28
Lexicomp Vocal Dictionary	48
Sun-Zi War Strategies	32
(Call for titles not listed. * is for bundle.)	

SCEPTRE®**Soundx Notebooks**

486SX25/4MB/260MB/Mono	\$1118
486SX33/4MB/340MB/Color	\$1668
DX2-66/4MB/340MB/Color	\$2688
DX4-100/8MB/540MB/Color	\$3298
P-90/8MB/540MB/Color	\$3998

Chinese/Japanese Word Processing

Window 95 ready:	
TwinBridge 4.0 (Std, Chinese)	\$278
TwinBridge 4.0 Upgrade	\$99
No need for COM port:	
GoGo Pen System (3"x3")	\$299
Fine Art Pen System (6"x6")	\$388

Cambie Road

We do system upgrade & repair w/ free estimate.

All prices reflect 2.5% cash discount and subject to change without prior notice.

2. Verify that the correct driver statement is in the Config.sys file, and that the driver statement specifies the correct path for the driver. For details about the specific driver statement for your CD-ROM drive, please consult the CD-ROM drive documentation or manufacturer.

3. Verify that Mscdex.exe is being loaded in the Autoexec.bat file, and that the Mscdex statement loads the Mscdex.exe file from the Windows\command folder. For information about the Mscdex statement settings, please consult the CD-ROM drive documentation or manufacturer.

4. Restart Windows 95.

What are the system requirements for installing Windows 95?

Your computer must meet these minimal requirements:

- Computer: 386DX, 20 MHz (or higher) processor.

- Memory: 4 MB (8 MB recommended). 8 MB is required to run The Microsoft

Network, Microsoft Exchange, or multiple 32-bit programs.

- Hard Disk: 20 to 90 MB of available hard disk space. The actual space required depends on whether you are upgrading to Windows 95 and the Setup option you choose.

- Video: VGA or higher resolution (SVGA recommended).

- Peripheral: High-density floppy disk drive, CD-ROM drive, or the ability to install from a network server.

- Pointing Device: Microsoft Mouse or compatible pointing device.

I upgraded to Windows 95, and now I do not see Program Manager. How do I run programs in Windows 95?

All of your Windows 3.1 program groups are converted into cascading menus off the Start menu in Windows 95. To run your programs in Windows 95, click the Start button, point to Programs, point to the group containing the program you want to run, then click the program's icon. Note that you need to click the program icon only once to start the program; you do not have to double-click the icon.

If you want to use Program Manager to run your programs, you can. To do so, click the Start button, click Run, type "progmam" (without the quotation marks) in the Open box, and then press ENTER. Note that Program Manager does not use long filenames.

How do I add or remove Windows 95 components?

To add or remove Windows 95 components, use these steps:

1. Click the Start button, point to Settings, and then click Control Panel.

2. Double-click the Add/Remove Programs icon.

3. Click the Windows Setup tab, and then follow the instructions on the tab.

A friend has a version of Windows 95 that includes more features than my version. Why does my version not have the same features?

Windows 95 is available on CD-ROM and floppy disks. More components are included in the CD-ROM version because of the additional space available on the CD-ROM. To obtain the CD-ROM Extras for Windows 95 upgrade on

3.5-inch high-density disks, use the coupon included in your Windows 95 package. You can also download the CD-ROM Extras for Windows 95 upgrade from the Microsoft Software Library. For more information about downloading the CD-ROM Extras for Windows 95 upgrade, please see the Extra.txt file in Windows 95.

How do I copy a floppy disk in Windows 95?

Use the following steps to copy a floppy disk:

1. Double-click My Computer.
2. Use the right mouse button to click the floppy disk drive containing the disk you want to copy, and then click Copy Disk on the menu that appears.
3. In the Copy From box, click the drive containing the disk you want to copy. In the Copy To box, click the drive containing the disk you want to copy to, and then click Start.

What is a shortcut, and how do I add one to the Start menu?

A shortcut is a link to an object (such as a program or document). A shortcut can point to a file on your computer or a file on a network server. A shortcut can even point to a paragraph in a document. To add a shortcut to the Start menu, use the following two steps:

1. Use the right mouse button to click the taskbar, and then click Properties on the menu that appears.
2. On the Start Menu Programs tab, click Add and follow the instructions.

For more information about creating shortcuts, click the Start button, click Help, click the Index tab, and search for "shortcuts."

What is Microsoft Plus! for Windows 95?

Microsoft Plus! for Windows 95 is a software package that includes many add-ons for Windows 95, such as:

- Microsoft Internet Explorer (so you can surf the Internet)
- Dial-Up Networking Server (so other computers can dial in to your computer)
- New DriveSpace disk compression
- 3D Pinball
- Desktop Themes (so you can personalize your desktop with wallpaper, icons, and screen savers)

How can I view two drives at one time as I did using File Manager in Windows 3.1?

To view two drives in Windows 95, open two instances of Windows Explorer or My Computer.

How do I create or modify file associations in Windows 95?

To create, modify, or remove file associations, use the following three steps:

1. Double-click My Computer.
2. On the View menu, click Options.
3. Click the File Types tab. To create a file association, click New Type. To modify an association, click the file type in the Registered File Types box, and then click Edit. To remove an association, click the file type, and then click Remove.

When you double-click a file type without an association, Windows 95 opens a dialog box so you can create an association if you want.

N & K COMPUTER LTD.

AMD DX4-100 w/8MB & PCI

Only \$1380

Triton-PENTIUM 75	\$1650
Triton-PENTIUM 90	\$1730
Triton-PENTIUM 100	\$1830
Triton-PENTIUM 120	\$2080
Triton-PENTIUM 133	\$2380

PCI motherboard w/256K
(Pentium system w/ INTEL-Triton chipset)

8MB RAM (72pin, 70ns)

WD 635MB EIDE Hard Drive ← 540MB

1.44MB Floppy Drive

Onboard EIDE controller w/16550 UART

64 bit PCI SVGA card w/ 1MB

15" Tower case w/200watt PS

14" Low Radiation SVGA monitor .28dpi N.I.

Keyboard & mouse

CPU cooling fan

MONTHLY SPECIALS

WD 635 MB Hard Drive

\$255

WD 850 MB Hard Drive

\$285

CONNER 1.2 GB Hard Drive

\$330

WD 1.6 GB Hard Drive

\$540

14" SVGA monitor .28dpi N.I.

\$290

ATI VIDEO -IT!
(Video Capture Card)

\$275

MODEM BLASTER
(CREATIVE LABS)

14.4 \$69 28.8 \$199

Upgrade & Unlisted items.
CALL or COME

HOT GAMES

7TH GUEST	\$23
INDIANA JONES	\$20
LEISURE GAME PAK	\$20
LEISURE GAME PAK II	\$20
MAD DOG II	\$25
MAD DOG MCCREE	\$21
NASCAR	\$36
OUTPOST	\$22
PANZER GENERAL	\$25
REBEL ASSAULT	\$35
SIMCITY 2000	\$26

... and many, many more!

#207-4968 Victoria Drive

(Near 34th Ave.)

Vancouver, B.C.

Tel/Fax 325-9258

Open M-F 10:30-6 Sat. 11-5, Closed Sunday

CD-ROM BUNDLE

SoundBlaster 16 OEM,
CD-Drive, 30W Speaker

2X \$179 4X \$309

VARSITY COMPUTERS

Serving Vancouver Since '87

Monitor Repair

- Free estimates in shop
- Drive-in service - full time technician on staff
- Pick-up & delivery available
- Repair most major brands
- Loaner available at low rates

Hard Drive Special

- 530MB \$300 installed
- 850MB \$380 installed
- Simplified data transfer included

So you want the internet?

- We offer in-house installation and training
- Free internet software
- Talk to a friend overseas on the internet!

All for just
\$40



Medical
Manager
Billing
Package

Complete Hardware
& Software Rental for

Only **\$69**
per month

3737 West 10th Ave. Vancouver B.C. (10th Ave. & Alma)
Phone (604) 222-2326, 222-2355 Fax (604) 222-2372

PC Survival Guide

So you've bought that new computer ...

Alan Zisman

So you've bought that new computer... now what?

Even though, for many families, a computer is one of the biggest purchases they'll make... not on a scale with the house or the car, but a biggie none the

less, it can be a disappointing experience. And in too many cases, it can end up in the closet, or a glorified games machine... at ten times the cost of a Super-Nintendo.

How can you avoid those disappointments?

By having realistic expectations about your new purchase, and by taking the time to learn to use it.

TECHNOLOGY AND TRAINING IS POWER AT Your FingerTips



CDIS
CENTER FOR DIGITAL IMAGING AND SOUND
A division of
INSTITUTE OF COMMUNICATION ARTS

3248 Beta Avenue, Burnaby, BC
V5G 4K4
CDIS@MINDLINK.BC.CA
<http://www.ica-cdis.com/cdis>
Tel: 604-298-5400
Toll Free: 1-800-661-1885
Fax: 604-298-5403

MULTIMEDIA

- ◆ Digital Publishing
- ◆ Interactive Multimedia
- ◆ World Wide Web
- ◆ Virtual Reality

SOUND PRODUCTION

- ◆ Music Production
- ◆ Digital Audio Post
- ◆ Midi Composition
- ◆ Audio for Video
- ◆ Music Management

COMPUTER GRAPHICS

- ◆ Alias Power Animator
- ◆ Softimage Extreme
- ◆ 3D Studio
- ◆ Lightwave 3D
- ◆ Form Z
- ◆ Strata 3D
- ◆ Photoshop

VIDEO / FILM

- ◆ Digital Video
- ◆ Motion Picture Production
- ◆ Film Editing
- ◆ Video Production & Editing

NEW MULTI-MILLION DOLLAR TRAINING CENTER

- ◆ Training Excellence Since 1979
- ◆ Semesters Commence Oct/Feb/June
- ◆ Student Financing
- ◆ Full or Part-Time

JUST CALL

298-5400
CENTER FOR DIGITAL
IMAGING AND SOUND

NOW WHAT?

That Out of Box Experience

Today, you can buy a computer in a department store or an office or electronics superstore— just across from home stereos, refrigerators, and toasters. Often, the salesperson will have been selling home appliances just last week. Unfortunately, even though they are being marketed like appliances, computers aren't quite that easy to use. There are reasons why there are computer user groups, but no toaster user groups (at least that I know of).

Still, computer manufacturers have tried to work on the "Out of Box Experience" ... you can buy a computer, get it home, and find that it can be set up and turned on, all without requiring an advanced engineering degree. This has always been true for Macintosh models, and is increasingly the case with the more common, but more complex, PCs. Even the later, are typically coming with plugs and cables that can only be inserted one way, and with software pre-installed. It should be possible to set it up, turn it on, and have a series of icons appear, showing what software is available, ready to work.

Before you go any further, take a quick inventory. Make a list of what you got— hardware and software. Note manufacturer, model, and serial numbers. Did you get original floppy disks and manuals for your system software (Mac OS, or DOS and Windows), and for any applications pre-installed on your hard drive? Some manufacturers, in order to save a few dollars, don't give you original floppy disks, but give you manuals... in these cases, there is often a program on the hard drive to let you make backup copies of the software onto floppy disks. Use it— hard drives fail, and you'll be grateful for the backup diskettes. If you don't have manuals for your software, you may not have legitimate copies, which could pose problems later on if you try to get technical support or upgrade to a newer version.

Some dealers offer multi-megabytes of shareware on your hard drive. Shareware programs are free for you to try out, or to copy, and share with your friends. Be aware that if you want to keep using shareware programs, you are expected to register with the program's creator, paying a registration fee. You'll notice that many shareware programs will nag you, either when you start or when you close them— until you do register.

Make That New Printer Work for You

In most cases, the first technical problem you'll have to face will be telling your computer what sort of printer is attached. If you have Windows 95, and a recent printer model, it may be able to find out this information for itself— but otherwise, if your computer has no way of knowing what sort of printer you're using unless you tell it. Try printing with the wrong information, and you may find pages of meaningless symbols and text spewing out of your printer.



In the bad-old DOS days, you had to do this separately for each piece of software installed. Now with Windows, or on a Macintosh, you only have to do this once... and all your software will be able to make use of the information. In Windows, double-click on the Main program group, and look for the icon that says Control Panel. Double-click on it.

(If phrases like 'double-click' and 'icon' are meaningless to you, find a child— they all intuitively understand these concepts).

Control Panel will open up, showing another window full of icons... find the one labeled Printer, and double-click on it. (Get it— double-clicking opens up an icon, running a program). It will give you a 'dialogue box'... a standard way for your computer to get information from you. You may be very lucky, and see your actual make and model of printer listed in the top left-corner, as the 'default'... the printer that will be used unless you say otherwise. More likely, no printers are listed there, or some random, incorrect model. If so, click once on the button labeled Add. (See, there is some logic to this process, at least some of the time).

This will get you another box, with a list of several hundred printer makes and models, listed alphabetically. Inevitably, your model will be far down the list, out of sight. Time to practice a new skill, manipulating 'scroll bars'. On the right-hand edge of the list, you'll see a

MY AC CESS KIT

InternetTM

USRobotics[®]

The Intelligent Choice in Data Communications



The Internet Surfboard

Access the Information Highway with U.S. Robotics, manufacturer of the world's best-selling V.34 modems!

- Compatibility - The most compatible with the widest range of modems
- Connect success rate - Connections are consistently made at the highest possible speeds
- Overall throughput - Faster E-mail, faster file transfer, and faster interactive performance

Sportster modems eliminate wasted time allowing you more time to interact in cyberspace. Look for the Sportster Vi with Personal Voice Mail, the newest member of the Sportster family, at your nearest retail store.

Sportster Vi 28.8 Fax modem with Personal Voice Mail

Available at a computer retailer near you!

Canada Internet Direct Inc.

<http://www.direct.ca>

Modem Dial-up Numbers:

Vancouver: (604) 602-9900

Victoria: (604) 360-0184

Calgary: available

Fax: (604) 691-1605

Abbotsford: available

Kelowna: (604) 762-0871

CALL NOW: 1-800-987-8884

Canada Internet Direct Inc. © 1994 Canada Internet Direct Inc. All rights reserved. My Internet is a registered trademark of Canada Internet Direct Inc. All other registered trademarks or trademarks are the property of their respective companies.

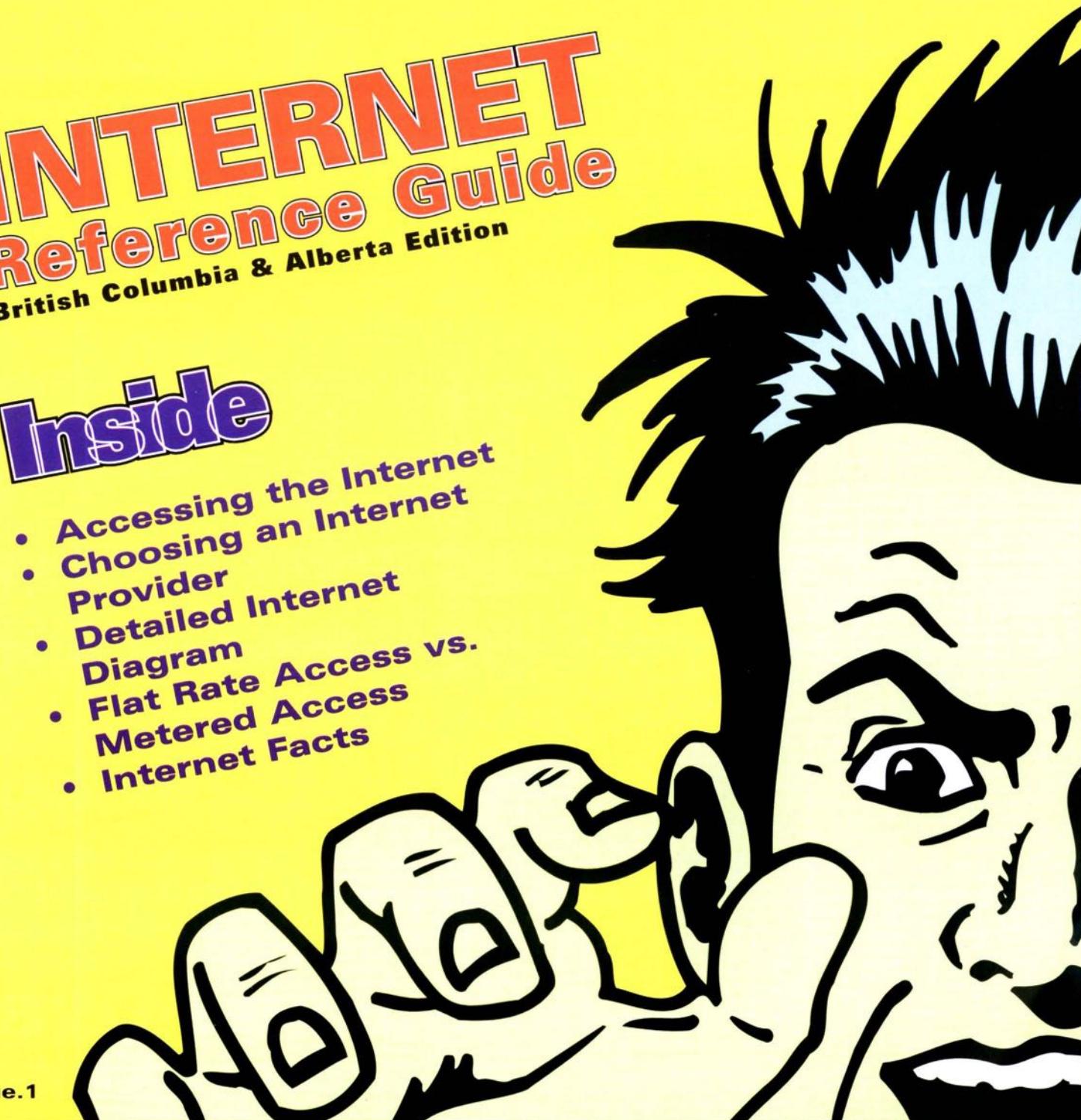
Printed in Canada
Issue.1

INTERNET Reference Guide

British Columbia & Alberta Edition

Inside

- Accessing the Internet
- Choosing an Internet Provider
- Detailed Internet Diagram
- Flat Rate Access vs. Metered Access
- Internet Facts



QUICK INTERNET FACTS

- In the late '60s the Internet starts as a United States military experiment to create a rugged communications system to withstand nuclear war.
- In the early '70s researchers and scientists start to discover social uses for their experiment, and create accounts for their own personal communications.
- During the '70s and '80s groups and individuals other than government begin to own powerful computers and are able to access the existing networks.
- At the same time, similar computer networks in other countries begin to link up and the "network of networks" starts to look more like the Internet we see today.
- In the late '80s and early '90s widespread knowledge of the Internet hits the media. Individuals and groups join the Internet phenomenon at an increasing rate.
- Over 157 countries are connected to the Internet by 1995.
- At present, no one knows the exact number of Internet users but estimates vary to 40 million, with one million new users joining per month.

THE INTERN

This is what you've been waiting for! The Internet is a worldwide system of interconnected computer networks that use the standard Internet Protocol Suite (TCP/IP) to link devices worldwide. It is a public, global, packet-switched computer network that carries various forms of information, including electronic mail, news, and electronic commerce. The Internet is a network of networks that consists of millions of private, public, academic, business, and other computer systems from all over the world, which are linked by a broad array of electronic, wireless, and optical networking technologies. The Internet has become a major part of everyday life for many people.

INTERNET SERVICE

Internet Service Providers, such as Internet Direct, provide access to the Internet 24 hours of the day, every day of the year. Your Internet Service Provider will take care of the speed and strength of your connection to the Internet. They will also provide the amount of support and assistance you receive. To choose an ISP see "Choosing an Internet Service Provider".



"FRIENDS & NEIGHBOURS" REFERRAL PROGRAM

Internet Direct is offering its subscribers a WEEKLY chance to win a pair of plane tickets to anywhere in North America, Mexico or the Caribbean. Winners choose their destination! It's easy! Starting in October 1995, new subscribers who purchase an individual dial-up account with Internet Direct will receive a chance to win and existing subscribers will receive one entry each time they refer a "friend or neighbour" who also signs up. No limit on the number of entries per subscriber! Each new subscriber you recommend means another entry! For further details, address your inquiry to contest@direct.ca.

MODEM

This is the communications device that connects your computer, through a phone line, to the Internet. Internet experts generally agree that you get what you pay for when shopping for modems. Minimum requirements:

- 9600 baud modem

Internet Direct recommends:

- an external modem (rather than an internal modem) 14.4 to 28.8 speed modems are optimum.

COMPUTER

The quality of the system you purchase will reflect the reliability of your connection to the Internet. The foundation of your Internet connection depends on your hardware, and you should aim for as strong a foundation as possible.

- Minimum requirements: 386 or higher PC-compatible
- MS-Windows version 3.1 or higher
- 4 Megabytes of RAM

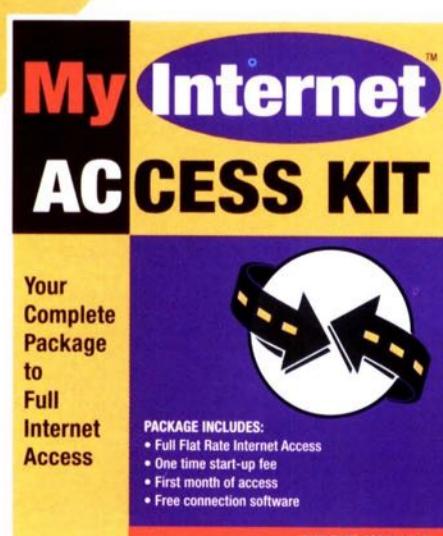
Internet Direct recommends: SVGA colour monitor.

SOFTWARE

At your local computer retailer, you will find a range of software packages, such as My Internet Access Kit. These programs are necessary to access the Internet. Internet Direct provides and delivers full-access software packages free of charge to new subscribers.

Internet Direct provides:

- Trumpet Winsock version 2.0 revision B
- Win FTP released June 11, 1994
- Eudora version 1.4.4
- Win VN Usenet News Reader Public Domain
- Netscape Navigator version 1.0N



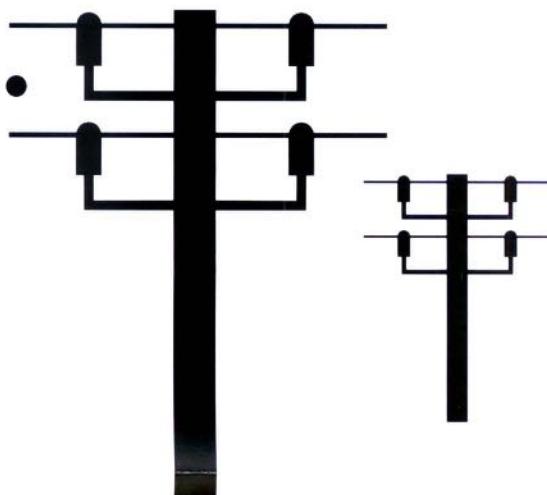
ET

iting for! Take the kids to see paintings in the Louvre in Paris. Voice your political opinions to a local MLA, submit your lengthy business files to international colleagues. Download images, movies, games and sound cousin about next year's family reunion. Swap chili recipes with new acquaintances. Set up an E-mail order relax to the sights and sounds of a South American rainforest. Search university libraries and laboratories under the sun. Catch up on movie and music gossip, ticket information and events in your area.

PROVIDER (ISP)

Direct, are linked to the Internet 24 choice of ISP determines the quality et, the rates you pay, and the e in getting on-line. For tips on Service Provider."

INTERNET DIRECT



**PERSONAL WEB
PAGES**
\$4.95 per month
Coming Soon!

CHOOSING AN INTERNET SERVICE PROVIDER

The following are points to consider before committing to an Internet Service Provider (ISP):

Hardware and Technology

- Is the ISP using high-quality modems?
- Are the modems well known brand names?
- What speed and volume are they capable of delivering?

At this time T1 connections and 28.8 speed modems are top of the line.

Telephone Connection

- ISPs are linked to the Internet by phone connections.
- Is your ISP working with a well-established, international telephone company?

Rates

- Will the ISP give you a clear guarantee of monthly rates?
- If not, is their formula for determining monthly rates easy to keep track of?

Technical and Customer Support

- Does the ISP have staff standing by to answer your questions and provide assistance in getting connected?

Corporate Reputation

- How many subscribers have already opted for the services the ISP provides?
- Is the ISP serving only a small group of Internet users, or a cross-section of the whole community?
- Does the ISP have a strong reputation with local businesses?
- Do they have the financial resources and backing to expand with this fast-paced industry?

INTERNET DIRECT

In 1994, two young Vancouver entrepreneurs, already successful in the communications industry, were having dinner with friends and discussing their idea of the perfect Internet Service Provider. What kept many people from experiencing the Internet, they agreed, was fear of the unknown. Not just the fear associated with a new form of technology, but fear of the potential cost and the hassle of signing up before even getting close to the Internet.

Later that year David Wolstenholme and David Schulz ran a number of focus groups that confirmed their assumptions. Then they set out to create the solution. "Internet Direct's motto has been 'ease of access' from day one," says David Wolstenholme, "your Internet account is now just a phone call away."

Internet Direct's registration centre signs up all new subscribers by phone. At this point subscribers receive a "user id" and choose a password to activate their account. This phone call triggers free delivery of Internet access software for Windows that is pre-configured and ready to slip into a computer. The same simplicity is reflected in the company's pricing structure. Now the largest provider of Internet services in Canada, Internet Direct was the first company to offer Internet access at a flat fee per month. There is a one-time only registration fee upon sign-up, each month thereafter is a set price that does not vary with the amount of time users spend on the Internet. "As the number of subscribers choosing Internet Direct grows, so will the system and its capacity," says David Schulz. Internet Direct currently houses over 800, 28.8 speed modem lines. New lines are being added each month according to closely monitored statistics on the number of users and volume of Internet traffic.

For registration with Internet Direct call: 488-1900 in Vancouver. For connection information outside the Lower Mainland call: 1-800-987-8884. Call Internet Direct's customer service line for general information about service at: (604) 602-1800 or e-mail info@direct.ca.

What Is The Internet?

Think of the Internet as a communication system for computers. It is a huge, international network that allows computers to talk to each other, regardless of type or location. This network, and all the information and capabilities it contains, is evolving and growing at a spectacular rate.

Each day the Internet is expanded and "re-invented" by the people using it. It has been called "the great leveller" because everyone is welcome to participate. Internet users around the globe have become a community of peers uniting diverse societies, cultures, economies and viewpoints.

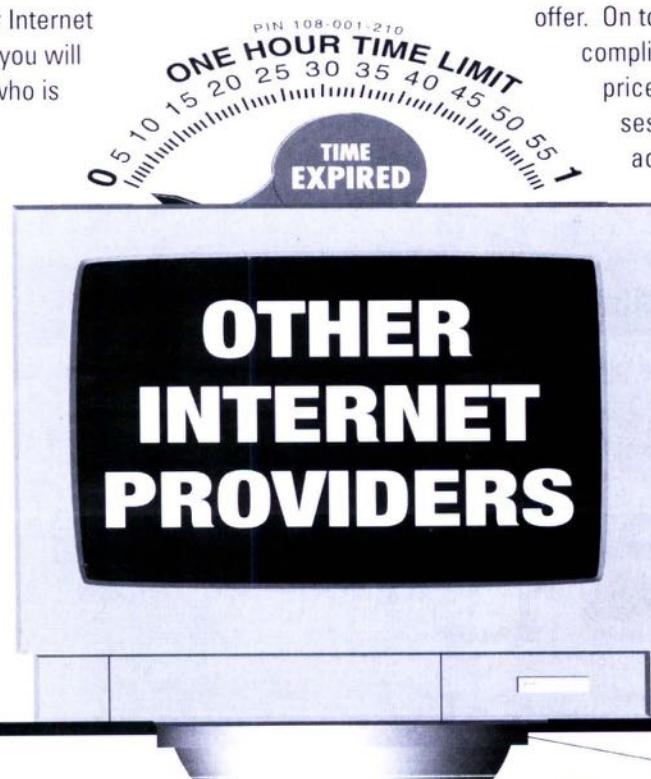
Why Would I Use It?

There are countless uses for the Internet and something to interest everyone "on-line". As a communications system you can send messages and "talk" to other users anywhere in the world without long distance charges. You can send long, complicated files or quick notes. You can communicate with your friends and family, business associates, clients, or people you've never met before who share similar opinions or interests. The Internet also has the potential to be the most revolutionary educational tool in history. Many of the world's prestigious centres of learning share their knowledge on the Internet. Adults and children alike can benefit from free and

easily accessible scientific knowledge, current events reports, literary and cultural experiences. Both small and large businesses can benefit from both quick and efficient Internet communication and from marketing opportunities. On-line advertising options range from displaying your catalogue of products, to describing services, or allowing customers to contact you from the comfort of their home. And then there is the purely recreational pleasure of the Internet. Discussion groups exist on an almost endless supply of topics. Images, sounds and text are yours to encounter and explore. Discover new information locally and globally. Get connected!

Advantages Of Flat Rate Service

Recently there has been an explosion in the number of Internet Service Providers, or ISPs, offering what may seem to be similar Internet connection services. Investigating how and how much you will be charged for your account is a good way to pinpoint who is actually offering superior service. Pricing structures for ISPs fall into two main categories of "metered" or "flat-rate" access. Customers of metered ISPs must pay for each minute they use the Internet. While paying only for the time you're "on-line" may seem logical and simple on the surface, you might want to consider a few of these facts before committing to a metered provider. For instance, should you find more and more uses for the Internet in your life, and consequently spend more and more time on-line, you will definitely be paying more and more! Also, if there is one activity during which it is easy to lose track of time it's "surfing the net." Internet users in some cities in the United States who subscribe to metered ISPs spend a whopping \$165.00 per month, on average. And, if you are on a budget, keeping track of your time with



metered providers could inhibit your enjoyment of what the Internet has to offer. On top of this, many metered ISPs use frustratingly complicated formulas to determine your monthly bill. Their prices can vary according to the time of day, day of the week, sessions per week, and even modem speed that you use to access the Internet.

Flat-rate Internet service provides you with peace of mind when compared to these run-away costs that are hard to verify. A stable rate can be more easily incorporated into a monthly budget, while still accommodating a growing interest and amount of use.

Internet Direct's success as an Internet Service Provider is closely related to its assurance of flat-rate service to its customers. With Internet Direct there are no surprises or guessing games each month. Full Internet access with free software and delivery starts from as low as \$19.95 per month in the Vancouver area. For connection and flat rate information in Vancouver call (604) 488-1900. In Victoria, Kelowna and Alberta regions call Toll-Free: 1-800-987-8884

virtual vocabulary:

- **E-mail-** Electronic mail is a method of sending messages to other Internet users without having to pay long distance charges.
- **World Wide Web-** The most popular, interactive, visual and aural component of the Internet.
- **Browsers-** Software, such as Netscape and Mosaic, that allow different computers to view the same information or "sites" on the World Wide Web.
- **Web Pages-** Pages containing text, images and sounds which you can view or listen to with a browser.
- **Hyperlinks-** "Clickable" areas of text or images in Web pages which move you to another directory or location on the Internet.
- **HTML-** Hyper Text Markup Language is the standard code used to create Web Pages. Your browser will automatically translate HTML into a readable format on your screen.
- **Download-** The term used for "pulling down" information from the Internet for your own use.
- **Upload-** The term used for sending data files on the Internet. Information can be uploaded and sent to other users on the Internet or "posted" to newsgroups.
- **FTP-** File Transfer Protocol is the standard used for uploading and downloading different files on the Internet.
- **Newsgroups-** On-line discussion groups on thousands of subjects. You can post messages and read what others have posted. Everyone is welcome to voice an opinion.



LETTER FROM THE PRESIDENT

I would like to take this opportunity to welcome you to the revolution that is the Internet. Across the planet individuals, businesses, universities and governments are linked together to provide information and services, share opinions and ideas, and hold discussions on thousands of subjects.

Internet Direct has become Canada's largest provider of Internet services by building a corporate philosophy around streamlined, user-friendly, and most of all, affordable access to the Internet. Our goal is to help you incorporate all the benefits of the Internet into your daily life.

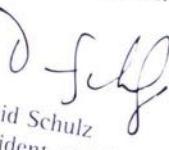
I feel that the impact the Internet will have on modern life can be symbolized only by referring to such great communication inventions as the radio and telephone, and even the Gutenberg printing press. As futurist Frank Ogden said:

"...in the past there were the Have and the Have Nots, now we have the Know and Know Nots. During Gutenberg's time the very rich had the access to knowledge through books and writings. This gave them power over the common folk....this changed forever the social structure."

Internet Direct is committed to simplifying the process of Internet access for all Internet users. No matter what your Internet needs are now, or what they will be in the future, Internet Direct is your efficient and reliable gateway to the Internet.

We are committed to quality service by constantly upgrading and adding to our already state-of-the-art technology. Our technical and customer support staff provides personalized assistance to new and existing subscribers.

I invite you to get connected with Internet Direct; try our services and experience first-hand the advantages and intrigue of the Internet.


David Schulz
President and Co-founder
Internet Direct

GET CONNECTED 1-800-987-8884

Creative Computer Systems

102-1965 West 4th Avenue, Vancouver, B.C.

Tel: (604) 318-0382

Creative Package

486DX Processor-based Systems

DX2-66	\$1375
DX4-100	\$1436
DX4-120	\$1460

Intel Pentium Processor-based System

P-75 Triton	\$1634
P-90 Triton	\$1764
P-100 Triton	\$1816
P-120 Triton	\$2034
P-133 Triton	\$2209

8MB 70ns RAM
730 MB EIDE hard drive
3.5" 1.44 MB floppy disk drive
PCI EIDE 2X 16550 UART
Trident PCI 9440 graphics card
with 1 MB DARM
14" 1024x768 N.L. LR. 0.28dp
14" Mini-tower case with 200W
Logitech 2B mouse
101 Enhanced keyboard

Multimedia Package

486DX Processor-based Systems

DX2-66	\$1723
DX4-100	\$1783
DX4-120	\$1808

Intel Pentium Processor-based System

P-75 Triton	\$2315
P-90 Triton	\$2445
P-100 Triton	\$2497
P-120 Triton	\$2715
P-133 Triton	\$2890

8MB 70ns RAM
840 MB EIDE hard drive
3.5" 1.44 MB floppy disk drive
PCI EIDE 2X 16550 UJART
Diamond Stealth 64 Video 64 bit
with 1 MB DARM
15" 1024x768 N.L. LR. 0.28dp
19" Mini-tower case with 200W
Microsoft V2.0 2B mouse
101 Enhanced keyboard
4X EIDE CD ROM drive
Soundblaster 16 bit
Stereo speakers & Microphone

Motherboard & RAM

AMD486DX2-66/100 PCI board w/ 256kb cache	\$220/283
AMD486DX2-66/100 VL board w/256kb cache	\$210/273
Pentium 75/100 Triton PCI board	\$556/749
4MB/8MB/16MB 72 pin SIMM	call

HDD & Tape Drive

1.44 3.5 Floppy Drive	\$42
Seagate 540MB/850MB	\$225/275
Conner 850MB/1.2GB	\$265/345
Quantum 540MB/1.0GB	\$230/320
WD 630MB/850MB	\$250/289
WD 1.2MB/1.6GB	\$405/550
Colorado Tape Dr 800MB/1.4G INT	\$275/410

MONITOR

ADI 15"4GP/17" 5EP N.I. L.R.	\$529/878
CompuParther 14"/15" 28 NI LR	\$325/445
Daytek 15" Supper Fine .25	\$445/468
SONY 15" Supper Fine .25	\$675
SONY 17" SF/17" SE	\$1230/1540

MULTIMEDIA

SoundBlaster 16 Basic/ASP	\$98/128
SoundBlaster 16 SCSI-2/ASP	\$185/268
Creative Multimedia Home 4X	\$548
Panasonic CR562B 2X/4X Int	\$85/218
NEC 6xi MultiSpin CDR-501/502 Int	\$586/659
SONY 76E 4X EIDE/76S SCSI	\$255/345
Toshiba 5302B 4x EIDE Int	\$225

KEYBOARDS/MICE/CASES

Proxel/Seijin/Mitsumi 101	\$28
Fujitsu 4870/4700	\$48/59
Focus 2001/7000 Trackball	\$52/77
Logitech 2B MouseMan/Bus	\$68/95
14"/19"/24" Mini-tower case 200W	\$75/99/125

MODEM

GVC 14.4 Fax/Voice Int/Ext	\$139/150
GVC 28.8 Fax V.34 Int/Ext	\$239/269
USR 14.4V Si V4.2bis Fax Int/Ext	\$95/125
USR 28.8V.34 Fax Int/Ext	\$255/276

* Two Year Parts and Service Warranty (Systems Only)

* All Prices Reflect 2% Cash Discount

* Prices Subject To Change Without Prior Notice

All brand names and trademarks are the property of their respective owners.

Store Hours:

Mon. - Fri. 09:30am - 6:30pm
Sat. 10:00am - 5:00pm
Sun. Closed



long, narrow, grey band, with arrows on top and bottom. Clicking on the down arrow with your mouse, moves you down the list, one line at a time. The up arrow moves you up. But that's too slow... Notice that there is a lighter grey square, at the top of the tube. Think of it as an elevator in a shaft. Clicking below the elevator, in the shaft, will move you down the list more quickly—a page at a time. Clicking above the elevator moves you back up. Here's a trick—type the first letter of your printer's name ("H" for a Hewlett Packard Deskjet, for example), will jump you to the first item with a name starting with that letter.

If you find your exact model, click on the Okay button (or press Enter, which does the same thing). But if your printer isn't on the list, it's time to crack open the printer manual. Most printers will emulate another, more popular, or older model... imitating the other model, so it can still be used, even with software that was written before your printer came out onto the market. The manual should tell you what other printer models can be used instead... often a popular Epson or

Hewlett Packard model, or an older printer from the same manufacturer.

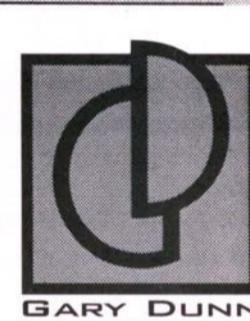
Once you've found a printer driver that will work with your actual model, you need to tell your computer how it is attached. Windows will assume that your printer is attached to something called, in computer jargon, LPT1: — the first printer port. Luckily, in most cases, that's correct, so you can leave this setting alone. Click Okay, and your printer is configured. Assuming the cable is connected between the computer and the printer, and the printer is plugged in, and you've added paper and toner... you can print! (Note that many printers are shipped with plastic pieces (often some

bright colour like orange) that help prevent damage in shipping... you will need to remove them before using the printer. Again, when in doubt, consult the manual).

Congratulations! You've successfully worked with both your software and hardware, to make your system work for you. You are now a computer user—hear you roar!

Manage a File or Two

Try out a few basic file management tasks. Learn how to use your computer to format a floppy diskette (not your hard drive!), and to copy and rename files. (Hint—in Windows 3.something, look for a program called File Manager (in your Main group) to do this). If you have a PC, get used to trying to cram descriptive and unique filenames into a mere 8 letters (no spaces allowed). If you have a Mac, you're allowed to gloat, at least until all your PC-using friends get Windows 95 or OS/2, and get to use long filenames like you. Try to make sense of the way your computer organizes files into folders or directories.



Intellectual Property

Corporate Finance

Contracts

Software



604 • 739 • 7011



604 • 739 • 7013



gary@dunn.com

Computer and Technology Law

610 • 1665 West Broadway Avenue,
Vancouver, British Columbia, Canada V6J 1X1

Maybe now you should take stock and think about what you hope to accomplish with your new tool.

Have I Got Some Software For You!

Almost everyone with a computer uses it for word processing. What else do you hope to use it for? Bookkeeping for home or a small business? Checking out the much-hyped Internet or other on-

line resources? Creating artwork or page designs for brochures or posters? Keeping track of customers, inventory, sales? Playing games?

Computers are multi-purpose machines... they can perform multiple functions, depending on the software that is loaded. Often, computer owners find themselves collecting software, or compulsively upgrading, to make sure they

always have the latest—and presumably greatest. This isn't always necessary, and can involve unneeded expense, as well as making sure that you never really learn to do anything very well.

A simpler, less expensive program may be more effective than the 'biggest and the best' in any given product category—in many cases, these are loaded with lots of extra functions that, if you

don't need them, make the program bigger, slower, and more complex (as well as more expensive). Many students, home, and small business users will find, for example, that one of the integrated 'Works'-type packages provides all the word processing power they need, as well as basic spreadsheet and database functions... all at a fraction of the cost (and hard drive space) of one of the major 'Suites'—collections of power-packed word processors, spreadsheets, and more.

As well, simple home finance packages, such as the wildly popular Quicken, may provide all the bookkeeping help an individual will need (though a business will probably need something more formally structured according to accounting principles—Quicken's cousin, QuickBooks may do the trick).

Help? Help!

Inevitably, as you try to use software, you're going to have questions... some of us have more questions, sooner, than others. How to get help? The best way is going to be different for each of us—we all learn in different ways. And in some ways, it's become harder to get help, while in others, it has become easier. Here are some options:

— ask a friend. People with computer skills (like people who own small trucks) find they are always in demand, with friends and acquaintances wanting assistance. For many of them, this has become quite a bother... if you are asking for help, be prepared to put up with some amount of grumbling, and offer some sort of reward—food, particularly chocolate is almost always appreciated.

— read a book. Software traditionally comes with manuals, which are typically ignored by users. (A cliché among the computer-skilled, is to tell novices to "RTFM"... Read The Something Manual). Often, that's because software manuals are virtually unreadable, unless you already know so much that you don't need to read the manual... old DOS manuals were classics of this sort. Instead, a large segment of the publishing industry has become devoted to helping people with computers. Recently, books with names like "_____ for Dummies", "_____ for Idiots" (insert your software name in the blank) have become wildly popular, combining advice for beginners with jokes and cartoons. Surprisingly, these books can be quite effective, even if the cartoons are frequently dumb.

Recently, many software manufacturers have started providing less and less printed documentation, both to save costs, and because they rightly suspect

VANCOUVER FILM SCHOOL

INTERNET TRAINING

VFS MULTIMEDIA OFFERS A 12-HOUR, HANDS-ON INTERNET TRAINING PROGRAM THAT IS WITHOUT RIVAL. IF YOU DEMAND THE BEST POSSIBLE TRAINING FOR YOUR DOLLAR...

- With the best possible student/instructor ratio: 7:1
- The best possible student/workstation ratio: 1:1
- The best possible industry-professional instruction available

ALL PROGRAMS ARE ONE NIGHT PER WEEK FOR 4 WEEKS.
ENROLL NOW. ENROLLMENT IS LIMITED.

PART-TIME CLASSES

Multimedia

- Alias: An Introduction to Alias Animator 6.0
- Introduction to CD-ROM Authoring
- Introduction to 2D & 3D Computer Animation
- Adobe PageMaker 5.0
- Introduction to MIDI
- The Personal Computer Recording Studio/Making Music with your Computer
- Computer Paint/Fractal Painter plus Photoshop
- Doom Levels & Graphics Design
- Internet Training for General Users and Specific Professionals
- Overview of HTML Publishing

Animation

- Classical Animation Art & Technique: Level I
- Classical Animation Art & Technique: Level II
- Life Drawing

Film

- Introduction to Filmmaking
- The Assistant Director
- Script Supervision & Continuity
- Cinematography & Lighting
- Art Direction
- Directing for Film
- Make-up for Film & TV
- Make-up Special Effects
- Low Budget Filmmaking/A Producer's Workshop
- Editing for Film
- Film Marketing & Distribution
- Scriptwriting: The Basic Tools
- Scriptwriting Workshop
- Music Video Production

Special Classes

- Stunt Training—An Introductory Program
- An Introduction to Training & Handling Wild & Exotic Animals for Film & Television
- Firearms in Motion Pictures
- Special Effects for Film & Television
- Traffic Control

Financial Assistance Available

Vancouver Film School
#400 – 1168 Hamilton Street,
Vancouver, B.C. V6B 2S2

E-mail: part-time@multimedia.edu

Call: 685-8689



VANCOUVER FILM SCHOOL

Alias Research Inc., the world's leading special effects software company, has designated Vancouver Film School an official Alias Training Centre to meet the global demand for computer animators skilled in Alias software applications. Within this partnership a high-end computer animation program has been created that delivers more access to SGI platforms (360 hours); the best possible workstation/student ratio (1:1), in a stunning production environment, at a cost without rival (\$16.60 per hour).

HARD TO BELIEVE?
CALL. COMPARE.
NOTHING DOES.

Acting

- Film Acting Technique
- Scene Study for Film Actors
- Voice Work for Film Actors
- Director/Actors Lab—A One-Day Workshop!
- Film Acting for Children
- Film Acting for Teens

NOTE: For all Children and Teen acting inquiries, call: 669-4885

that most users ignore the manuals, anyway. In some cases, you'll now find a slim 'Getting Started' guide in the box—which may be more readable than an old style manual. Or some or all of the documentation may be on a CD-disk or installed onto your hard drive. Try clicking on the menu item labeled Help, in your program, and see what's available.

— run a tutorial. Some of us can't learn very well from a book, even one aimed at 'dummies'. Some of us, however, can learn by practicing on the computer. More and more programs include some sort of on-disk tutorial. If available, this will probably be accessed from that same Help menu. Give it a try—some people find it very useful.

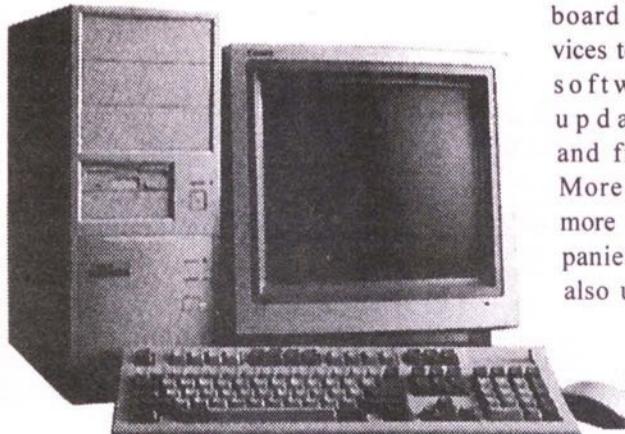
Other companies offer software or even video cassettes, with more tutorials than are included with the program. In some cases, you can even find some of these in your public library.

— take a class. School boards, community colleges, universities, and several private companies have found that they can offer a wide range of computer and software night-school classes. Make sure, however, that you sign up for a class that's appropriate to your needs... I know a couple who bought a computer, and immediately signed up for a community college's introductory class, only to find themselves learning to convert numbers into binary and hexadecimal (base 16) notation, when they actually wanted to learn about how to use their word processor. Make sure that the class you take includes hand-on experience working with the software that you want to learn.

— join a users group. Many communities, and even some companies and organizations, have volunteer users groups. These may be large and generalized, such as Vancouver's massive PC Users' Group, or smaller, focusing on a special interest piece of hardware or software. Group meetings often include open-ended time for users to help one-another. (And users group members often get discounts on buying hardware or software).

— phone the company. Support from companies is becoming harder and harder to get... companies have found that it is a major cost, and one that they are trying to cut back on. A few years ago, many companies provided unlimited free phone support, in some cases, with 1-800 numbers. The 1-800 numbers are almost all gone, and unlimited free support is disappearing. Instead, most companies offer limited time free support (often 90 days from your first phone call). And be prepared to spend a long time on hold (at your long-distance expense) waiting to speak to a support person. Instead, companies are offering a variety of pay-for-support plans, ranging from 1-900 added cost phone calls, to prepaid plans providing support over a longer period of time.

In place of speaking to a technical support person, many companies are expanding alternatives—free fax-back services, for example, where you phone an automated system that faxes you a document focusing on one of a number of common questions, are increasingly popular. So are company run phone-in bulletin board services to get software updates and fixes. More and more companies are also using



the Internet as a way to distribute technical advice, ranging from sending e-mail to a technician, to getting documents and software.

Inevitable, most of us learn something (in whatever style works best for us), when there's a reason—you're more likely to learn to use your word processor, when you have some project that you want to write. I learned to use a spreadsheet one Spring Break after someone suggested I could use one to manage my class marks.

And that's the key—computers are a powerful tool, but only a tool. Get one when you have a need for it, and you'll be motivated to find a way to use it successfully. If you get one without a clearly-defined need, it's too easy to become frustrated, and end up with an expensive collection of boxes in the basement.□

About the author: Alan Zisman can be reached at e-mail: alan_zisman@computer-player.com

**Business Hours: Mon-Sat 10:00am - 6:00pm
Sun 1:00pm - 5:00pm**

AST

NEC

Canon

Microsoft

HP HEWLETT PACKARD
Authorized Retailer

**Business
Retailer**

Red Tag Special

Creative Lab Sound Blaster Kit
2 Speed CD-ROM & SB 16,
Stereo speakers & 11 Titles
\$299.99

Canon BJ-100 BubbleJet
\$249.99*

Options:
add 540MB HD ... \$249.99
add 4MB RAM ... \$210.00
Canon BJ-100 ... \$249.99*

\$999.99*

not exactly as shown

Student Special

IBM SLC2-66MHz
Mini-tower case
64K cache
4MB RAM
260MB hard disk
1.44MB 3.5" floppy

101 keyboard
14" SVGA color monitor
Modem
MS DOS 6.22
MS Windows 3.11

IBM

**Quality Performance
Value**

HP 600C
\$399.99*

* when purchased with system below

IBM

**Genuine
IBM
3 Year
Warranty**

It's multimedia made easy

Intel 486DX2/50MHz
Pentium Upgradable
340 MB Hard Drives
4MB RAM
2 speed CD-ROM Drive
MediaVision sound card
1.44MB 3.5" floppy
4 drive bays
7 exp. slots
fax/modem

14" IBM SVGA Color Monitor
MS DOS 6.21
MS Windows 3.11
Local Bus Video
3-Year IBM Warranty
Compton's Encyclopedia
MS Works
IBM Exclusive Utilities

\$1688.88*

* IBM 14" monitor included

**Limited time offer!
Bank Loan at Prime Rate!**

Actionsys Professional Workstations

All systems includes the following:

Partium 90MHz
BM5 RAM
BM5MB HD
1.44MB Floppy
101 Ent-Keyboard
mouse & pad
IBM PCI Video
Built-in EIDE 2 x 16550
14" SVGA Color Monitor

\$1999.99 3 year Warranty

Service . Networking . Computer Training

Service - We are an IBM Authorized Maintainer
Let us service your genuine IBM computer

Networking - we are a Total Solution Provider
Contact our Networking Team at 436-2666

Computer Training - innovative computer classes for age 6 to 60, professional instructors, state-of-the-art equipment, and a fun & friendly learning environment - contact Harry Ho at 436-2333

Make Music with Your Computer

Starting in June
Call for Information!



Advanced Classes
Now Starting



FORMAT

4 week course
1 1/2 hours per week
8 people per class
1 computer music station per person
Qualified Instructors
Introduction \$99.00 Advanced \$129

TOPICS COVERED

MIDI Basics • Music Sequencing

929 Granville St.
685-8471 or 688-8929



Distributor of TYAN Motherboard

Triton chipset with PIPE-LINED Burst cache

Distributor of Smartlink Faxmodem

Call for detailed information

National Distributor of GIGABYTE Motherboard

- GA 586 AT Pentium Motherboard with Intel Triton Chipset 75-150MHz
- GA 586 AP/AL Pentium Motherboard with ALI Chipset
- GA 486AM 486PCI Motherboard
- GA586ID with dual CPU

Distributed by:

READY COMPUTER INTERNATIONAL

#110 - 12860 Clarke Place, Richmond B.C. V6V 2H1 Canada
Tel (604) 270-7618 Fax: (604) 270-7658

Good CD-ROM producers wear many hats

Philip Hyams

If you're familiar with PCs, you're probably aware of the phenomenal impact which CD-ROM technology is making today in the computer field. A CD-ROM looks exactly like an audio CD, but the similarity stops there. A CD-ROM can store not only audio, but also video, computer data, photographs and animation. This makes CD-ROMs ideal for multimedia programs. One can acquire a CD-ROM drive today for about \$150.00. The past year has seen an incredible number of CD-ROM titles launched in the international marketplace, everything from games and educational to productivity and training. Taking the above into consideration, we must also realize that the single, most important factor in all of the changes taking place today in the realm of computer technology, is undoubtedly the human one.

Remarkably, there is a serious shortage of multimedia producers to meet the demands imposed by new technological developments. In an era of changing economies and revolutionary technologies, the

profession of CD-ROM Producer, like no other, epitomizes the skills and "knowledge worker" talents required to successfully create and compete in this new age of cyber-business and global marketing. Yet, there are still very few multimedia producers active in this remarkable and cutting-edge field. I interviewed, Claudio Baiocchi of Microforum Inc. - one of Canada's foremost interactive multimedia producers to find out why, but also to find out what the future may hold for all of us.

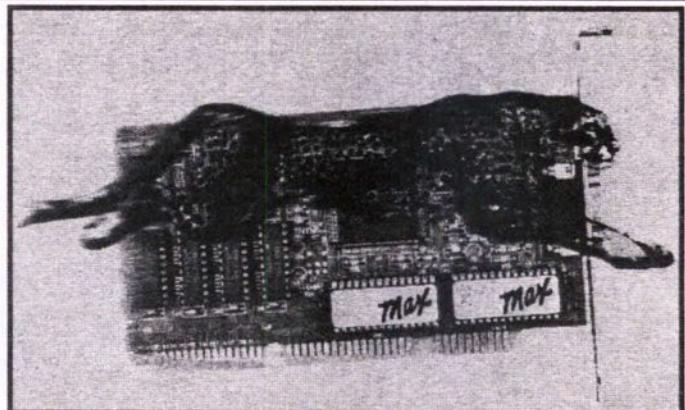
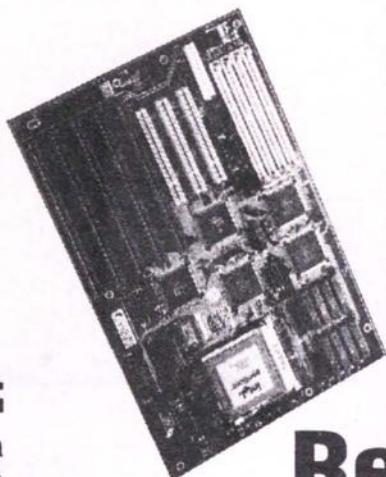
CP: Claudio, the words "interactive" and "multimedia" are being used so frequently today, I wonder if people really are aware of what these terms mean? Could you define what a multimedia or CD-ROM producer is?

Claudio Baiocchi: Well, a multimedia producer is an individual that is competent in a wide variety of different technologies and art forms; a person who is able to combine many forms of technology and art into a cohesive final product, such as an interactive CD-ROM.

Take your
VIDEO **2 the Max**

National Distributor of
2 the Max Video Cards

- PCI Weitek VRAM
- PCI S3 TRIO 64
- PCI ARK 2000
- PCI ARK 1000
- PCI CL5434
- VLB ET4000W32P



HARDWARE

A good design can count as much as memory when producing Microsoft Windows accelerators ... the \$279 Focus 2 the max TrueSpeed W32i ... Managed to post impressive score on our benchmark test ... also were at the top in terms of their DOS video scores. Impressive performance at a relatively low price earned an honorable mention.



HARDWARE

Graphics Adapters
The second-fastest of these nine boards on our AutoCAD tests was the Focus 2 the Max TrueSpeed. By opting for third-party drivers instead of the S3 versions, though, you'll get extra convenience features - bird's-eye views, panning, pop-up menus, zooming. By the time you read this, however, S3 plans to be shipping updated AutoCAD drivers that support these features.

- PCI Enhance Combo controller
- PCI SCSI Controller
- Fujitsu Keyboard
- Maxi Keyboard
- CD ROM Drives
- CD Titles
- Sound Card



Factory's recommended Service Center

Ready = Top (Quality, Price, Service)

CP: Why are multimedia producers in such demand today?

Claudio: First of all, because of the recent boom in computer hardware and powerful game platforms, CD-ROM drives, optical cables and so on. Since it is really a position which only developed in the past few years due to the advent of interactive technology, it is extremely difficult to find people who have experience as multimedia producers. There are individuals with experience in the various fields which multimedia incorporates, but usually, they are only qualified in one or two of the disciplines required to produce a successful multimedia product. So you see...it is hard to find that special someone with experience in the wide variety of fields which multimedia encompasses.

CP: How did you get started?

Claudio: My background includes programming, creative direction and marketing. In 1989, I joined forces with my father, and about four years ago had the opportunity to move Microforum into multimedia production. At that time it was a gamble but it paid off. Right now, Microforum is the largest producer of CD-ROM products in Canada. A few years back, if someone had told me that I was going to end up with one of the toughest

jobs in the world...well...I wouldn't have believed that person. I have produced over 30 CD-ROMs from games to educational products and every project gets harder instead of easier. The fact is that the technology has expanded the creative processes, and in order to realize a high-quality CD-ROM product, the multimedia producer must have the expertise in the required fields for product creation.

CP: Why is it so difficult to be a multimedia producer?

Claudio: First of all, let me explain a bit about interactive multimedia technology. With a CD-ROM product, you are able to interact with a variety of different technologies such as Video, Animation, Graphics, Programming and Sound. It takes an exceptional individual to keep up with each different technology in order to get the most from it. For example, only a few years ago you could only play a small size video clip on your computer. Today, you can play full-size video. In fact, the new fast-action game we are about to launch, "Expect No Mercy", is using technology that did not exist six months ago. The technology is just changing too fast. It's so hard to keep up with it! So, you see, these things make the job of multimedia producer quite demanding.

(Continued on page 44)

Looking To Move Up call Super-Byte.



Multimedia Pentium

w/ Monitor

\$1999

Warranty - 2 yr.

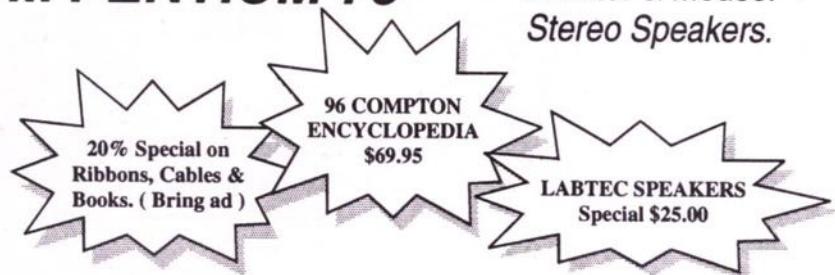
8 Meg Ram.

850 MB Hard Disk.

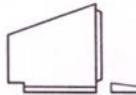
CD-Rom.

16 bit Sound - Card.
Monitor & Mouse.
Stereo Speakers.

... PENTIUM 75



"We Provide Sales with Service and Training"



**SUPER-BYTE
COMPUTERS Ltd.**

CHECK OUT SUPER-BYTE'S LOCAL B.B.S.
FOR MORE INFO CALL
Phone: 463-8733

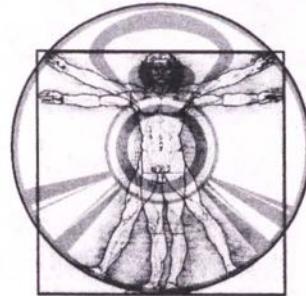
210-22529, Lougheed Hwy, Selkirk Center, Maple Ridge, B.C. V2X 0L4



Sony Playstation

NOW OPEN!

PC CD-ROM



Sega Saturn

120 East 3rd Street
North Vancouver
(604) 987-DISC (3472)

InterAction

Your CD-ROM Specialist

- ⊕ TRADE IN YOUR OLD PC CD-ROMS FOR NEW ONES!*
- ⊕ RENT NEW CD-ROM'S BEFORE YOU BUY
- IF WE DON'T HAVE WHAT YOU'RE LOOKING FOR,

WE CAN GET IT.

You Are Not Ready.

*some restrictions apply.

Database Developments

John Hamm

Visual FoxPro 3.0

Visual FoxPro 3.0 is the latest incarnation of Microsoft's version of dbase. dbase (with a small "d" or sometimes an "x") is the venerable dean of pc database languages. FoxPro has always been

a fast and powerful desktop database management product in that category and the latest release is no exception. The new "visual" interface makes tasks such as form design both fun and easy.

Visual FoxPro is a BIG program and you should probably avoid it if your data management needs are few. FoxPro is over-kill on small projects such as

Best Value for Your Money

Portable
Peripherals



ATA Computer Speakers



- 18-key **Serial Port Numeric Keypad**, which connects via the standard RS232 / serial port.
- 17-key **PS/2 Numeric Keypad**, which connects via the PS/2 port.
- 17-key **Par-A-Key (PAK) Numeric Keypad**, which connects via the parallel/printer port while offering continued printer support.

- Front Headphone Jack
- Front Mic Jack
- Separate Treble & Bass Booster
- Auto Shut Off
- AC/DC - Adapter Optional
- Passive Speaker Mode without AC/DC Input

CARDport
PCMCIA PERIPHERALS



The perfect products to move data from Palmtops & Notebooks to Desktops!

- Supports ALL PCMCIA Cards including FAXmodems, memory, SCSI, Ethernet, 3270/5250, hard drives, solid state drives, serial port & more!
- Supports Type I, II & III cards
- Hot insertion
- 2 PCMCIA slots - front & rear
- 16 bit half-size interface card

Dealers enquiry only please.



Surrey, B.C. Tel: (604) 543-9389 Fax: (604) 543-8890

NANTRON SYSTEMS LTD.

486DX2-80 PCI/ISA \$1668
P5-75 MPC \$1928

GIGABYTE 486 PCI/ISA GREEN M/B	3B HI-RES MOUSE W/PAD
.SX/DX/DX2/DX4/P24T UPGRADABLE	.19" MID TOWER CASE
.3PCI+4ISA BUS, 72PIN SIMM, LBA	.14.4 INT. FAX MODEM
.256KB CACHE EXP'L TO 512KB	.16 BIT SOUND CARD
.8MB RAM EXP'L TO 128MB	.SPEAKERS & MICROPHONE
.540MB EIDE HARD DRIVE	.14 MPC CDROM TITLES
.1.44MB FLOPPY DRIVE	ENCYCLOPEDIA '95
.PCI 1MB VGA CARD EXP'L TO 2MB	ANIMALS '95
.ON BOARD EIDE/EIO (2X16550+EPP)	HOT GAMES
.14".28 NI GR LR SVGA MONITOR	(MS HOME '95 CD ADD \$40)
.101 ENHANCED KEYBOARD	



NOT ONLY AFFORDABLE AND HIGH QUALITY COMPUTERS,

WE OFFER YOU TOTAL SOLUTIONS!

ers will be better off investing their time in learning one of these.

But for the thousands of developers who have years of investment in the xbase language Visual FoxPro 3.0 is confirmation that the language will continue to be supported into the future and will continue to benefit from the latest developments in software engineering and technology.

This assessment was carried out on a 486/66 with 16MB of RAM and was made with the Standard Edition of Visual FoxPro under Windows 95.

Visual FoxPro has been said to be unstable under Windows 3.1 and 3.11 so should only be used with Windows 95 or Windows NT.

Two editions

Visual FoxPro is distributed in two formats. The Standard Edition and the Professional Edition. The Professional Edition, for a couple of hundred more dollars, comes with a compiler, a couple of extra bells and whistles, and complete documentation.

Unfortunately the Standard edition come with sparse printed documentation. In particular, the Language Reference is missing. While it is included in the online help, the printed volume is really needed for serious study. One of the nice things about xbase is that once you know the basic commands you can learn new commands in a leisurely fashion. It is only by reading the Language Reference in your favourite chair that you can browse the commands you've never looked at before and say "wow!" when you discover an "I didn't know you could do THAT!"

Apart from the lack of a Language Reference we found the Standard Edition to be quite acceptable for our purposes. Of course if we were developing applications for clients we would use the Professional Edition since the compiler enables

HOT PARTS SELECTIONS

4/8/16MB SIMM RAM.....\$179/349/615	MONITOR .28 NI LR GR 14"/15"....\$289/418
1.2/1.44MB FLOPPY DRIVE.....\$65/39	MONITOR FLAT DIGI 17".28.26....\$848/948
540M/850M/1.2GB HDD.....\$225/269/349	MS/LOGITECH/K9 MOUSE.....\$35/32/15
CD DRIVE 2X/4X/6X.....\$85/205/699	PROXEL 101 ENH K/B.....\$28
TAPE DRIVE 420/800MB.....\$199/279	FUJITSU 4700/4870/8720 K/B.....\$584/42/33
DOS 6.2 & WINDOWS 3.11WG.....\$128	CASE 13"/19"/FULL.....\$68/88/118
MS HOME 7 TITLES (ENCARTA).....\$98	MICROPHONE/EARPHONE.....\$12/8
14 CDROM TITLES (GROLER).....\$49	SOUND BLASTER 16/ASP.....\$98/168
17 CDROM TITLES (COMPTON).....\$59	SOUND BLASTER AWE32V.....\$239
40W/120W SPEAKERS (AC).....\$28/99	PROMOVIE STUDIO.....\$298
14.4 FAX MODEM INT/EXT.....\$69/99	4X CDROM PACKAGE.....\$398
14.4 INT. VOICE/FAX MODEM.....\$89	4X EIDE CDROM DRIVE
28.8 USR INT. V34 FAX MODEM.....\$269	SOUND BLASTER 16 CARD
28.8 FAX MODEM INT/EXT.....\$198/239	40W SPEAKERS WITH AC POWER
VLB IDE+IO/EIDE+EIO CARD.....\$28/48	MICROSOFT HOME '95
PCI/VLB VIDEO CARD 1/2MB.....\$98/168	MICROPHONE
ATI M64 TURBO 4MB VRAM.....\$688	(2X CDROM -\$120)
ATI M32 1MB DRAM.....\$148	NOTEBOOK CLR/MONO.....\$1599/\$1099
ATI M64 2MB D/VRAM.....\$248/348	486SX-33/25 CPU
DIAMOND ST64 2MB VRAM.....\$348	4MB RAM, 340MB IDE HDD
M/B 486DX/256M 68/80/100.....\$218/238/278	MOUSE, PCMCIA
M/B PCI 486DX/256K 80/100.....\$268/308	
M/B P5 TRITON 75/90/100.....\$518/618/718	

486 VLB SYSTEM

486DX2-66	\$1188
486DX2-80	\$1208
486DX4-100	\$1258
486DX4-120	\$1298
GIGABYTE HIGH QUALITY M/B	
3V BUS, ZIF SOCKET, 72PIN SIMM	
256KB CACHE EXP'L TO 512KB	
4MB RAM EXP'L TO 128MB	
.540MB EIDE HARD DRIVE	
1.44MB FLOPPY DRIVE	
32BIT VLB 1MB GA/VGA CARD	
32BIT ENH VLB IDE/O CARD	
2S, 1P, 1G PORTS	
14".28 NI LR SVGA MONITOR	
101 ENH. K/B W/3B MOUSE & PAD	
19" DUAL CSA MID TOWER CASE	
UPGRADE TO PCI SYSTEM +\$29	
W/2S(16550) 1P(EPP) PORTS	

PS PCI SYSTEM

P5-75 \$1829
P5-90 \$1929
P5-100 \$2029
P5-120 \$2259
P5-133 \$2549
GIGABYTE HIGH QUALITY M/B
3PCI, 4ISA, ZIF SOCKET, 72PIN SIMM
256KB CACHE EXP'L TO 1024KB
(PIPELINE BRUST CACHE +\$158)
8MB RAM EXP'L TO 192MB
(EDO MEMORY +\$78)
.850MB EIDE HARD DRIVE
1.44MB FLOPPY DRIVE
32BIT VLB 1MB GA/VGA CARD
32BIT ENH VLB IDE/O CARD
2S, 1P, 1G PORTS
14".28 NI LR SVGA MONITOR
101 ENH. K/B W/3B MOUSE & PAD
19" DUAL CSA MID TOWER CASE
UPGRADE TO PCI SYSTEM +\$29
W/2S(16550) 1P(EPP) PORTS



your users to use your application without having to purchase their own version of Visual FoxPro. And the production of a single exe file makes it much easier to distribute your applications.

The Visual Interface

If you have not taken a look at the new "visual" programming tools we will try to briefly explain how they work.

The common characteristics are a toolbox or toolbar that contains icons or pictures of common windows' components such as the check box, the combo box, the file/open dialog box, scroll bars, command buttons etc.

Generally you start with a form in a window. By clicking on one of the icons in the toolbox you can then click on the form and drop the component on your form. For instance you may click on the command button icon and then click on your form to place a command button there.

The next step is to write some code to associate with the button, to tell it what to do. Usually, and in Visual FoxPro, if you click on the button when in design mode a text editing window will pop up where you will write your code. This will often be as simple as a one line command such as "DO update"

Each component has a myriad of properties which are displayed in a property window. Click on "background colour" for instance to pop up a colour chart from which to select. "Click" and your command button is Bright Red!

Visual FoxPro 3.0 implements this visual methodology in a fairly typical manner. It does it well and seems stable enough.

Object Orientation

FoxPro has finally incorporated Object Oriented Programming (OOP) into its xbase language and the implementation is reasonably complete.

What is truly significant about the visual approach is that you really don't have to investigate the language constructs to use it. Objects are things like your bright red command button. After you have customized a standard component you can save it as a class. You can then add that class to your toolbox and use that icon to put nice bright red command buttons throughout your application preserving your "look and feel". If you change the color of your base class button to green, all the command buttons will be green wherever they were used.

Objects are something like templates except that when you change the underlying object, all objects you copied from it now have these changes. This can have unexpected results. The default properties inherited from the parent ob-

ject can be over-ridden or changed in the child object.

Of course all the visual effects can be achieved or fine-tuned programmatically. It is also possible to create effects at run time that are not visible in design mode.

Events are also easy to program. The property list for each component lists all the available events such as GotFocus, KeyPressed, Click. One of the properties is the VALID function; when you click on that property a text editor window pops up where you can write code to check the entry for validity, was the date entered within a certain range? If the validity check fails the user can't leave the textbox until valid data is entered.

The grid component

The grid in the standard toolbox is a spreadsheet-like box or Browse Grid you can place on a form to display your information in rows and columns.

The grid component will probably be the most-used control of the bunch. It is very simple in conception but the variety of properties and methods associated with it and each of its sub-objects: the column, the header and the cells of each column in the grid is astounding. The process of customizing your grid can be truly obsessive.

The development of customized grids or browse screens can be time-consuming but the ability to reuse and descend new grids from a parent-type makes up for it many times over.

This is object-oriented programming made very easy.

Assessment

Visual FoxPro is an excellent addition to the choices now available to Windows database developers. It should also make an excellent product for people who want to make the transition from DOS-based programming to Windows.

Some of the interface components seem not quite finished. For instance the text editor lacks many features such as colour-coded syntax. Perhaps the pressure to get product out forced release before it was ready. In any case, we found no serious reasons to wait for release 3.1 though we hope it will be soon.

Next month we hope to have initial impressions of Visual dBase, the other option in the xbase Windows world. □

About the author: *John Hamm is a consultant and database application developer at Eastside DataGraphics, Tel: 255-9559, email: John_Hamm@MindLink.bc.ca*

FULLY LOADED WITH PROFESSIONAL SOFTWARE



Got a colour picture or image that would look great in your next presentation or report? Then get a StudioScan or StudioScan IIISi colour scanner from Agfa. Easy to set-up, even easier to use, it's the best way to add colour to your PC or Macintosh – and everything you create with it.

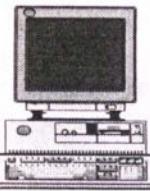
	StudioScan	StudioScan IIISi
Optical resolution	300 x 600 ppi	400 x 800 ppi
Maximum resolution	2400 ppi	2400 ppi
Bit depth	24 bit	30 bit
Colour management	FotoTune (limited edition)	FotoTune Light
Scanning software	FotoSnap & FotoLook	FotoSnap & FotoLook
Image processing	PhotoShop (limited edition)	PhotoShop (full version)
OCR software	Omnipage Direct	Omnipage Direct
Suggested retail price	\$1,175	\$1,495

I'd like to know more, please send me information about StudioScan StudioScan IIISi

NAME	
COMPANY	TITLE
ADDRESS	CITY
PROVINCE	POSTAL CODE
TELEPHONE	FAX

Agfa Division, Bayer Inc.
77 Belfield Road, Etobicoke, Ontario M9W 1G6
Tel: 416 241-1110 or 1-800-268-1331 ext. 4032
Fax: 416 241-5409 TCPL

AGFA 
The complete picture



- 全新電腦
- 零件
- 修理

DC Computer Hospital Ltd.
電腦維修專門店

Special with this ad only

850MB (10ms) Hard Drive * \$295.00
Panasonic 2X Speed CD-ROM Drive * \$87
16MB SIMMs, 72 pins * \$619

* Note: While Quantities Last

Upgrade Special
486 DX-4-100
3 VLB slots, 256K cache
Motherboard + CPU
only \$299

ON-SITE, IN-SHOP SERVICE
ON-SITE NETWORKING,
ASK FOR DETAILS
PRINTER & PRINthead REPAIRS
HARD DRIVE RECOVERY
HARDWARE & SOFTWARE
PROBLEMS SOLVED
NEW SYSTEMS AT GREAT PRICES

Prices subject to change without notice.

2811 Shaughnessy Street
Port Coquitlam, B.C. V4C 3H1
Tel. 942-2830 Fax: 944-8900

MS Works95 - MS Office, Junior Edition

review of Microsoft Works 4.0 for Windows 95

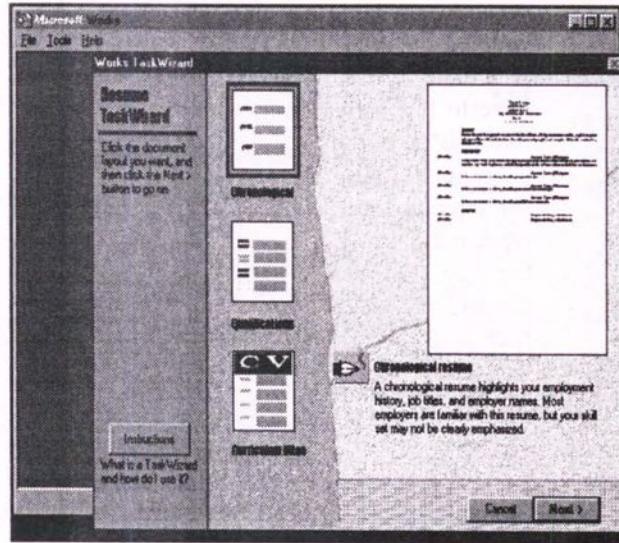
Alan Zisman

Microsoft Works, one of the classic so-called integrated programs, is out with a new edition, version 4.0. It has been available for years, as a low-cost program combining word processing, spreadsheet, database, telecommunications, and graphics, in DOS and Mac versions, and more recently, in a Windows 3 version. Currently, version 4.0 is only available in a version for Microsoft's new Windows 95 environment.

As with all Win 95 programs, Works 95 is able to take advantage of the features of this operating system—long file names, easier to use dialogue boxes, and more stable pre-emptive multitasking. As well, since integrated programs are most likely to be purchased for use in homes, schools, or small businesses, Microsoft has worked hard

to improve the program's ease of use in these contexts.

The program doesn't ship with a manual. While this will be missed by some users (such as me), I suspect that Microsoft has discovered that most users don't read software manuals. Instead, there's a very brief introductory booklet... 'The Works Companion', claiming



to provide 'Real World Solutions for the Work You Do'. But the real information is on disk, and to a large extent, on screen.

By default, when you open Works, you are presented with a list of common document types—Wizards and Templates for resumes, reports, budgets—all sorts of basic home and business correspondence and documents. These make it easy to get started with a properly formatted document, ready to customize with your own text or data. If you prefer, you can set it instead to start with a view of previously saved documents, or with your choice of a new word processor, spreadsheet, database, or communications session..

When you actually get into the program, you'll find your working view devotes only two-thirds of your screen to your document—a pane on the right is filled with Help Contents, chosen as appropriate to the task

200+ WINDOWS CD-ROM TITLES

Hundreds of CD-ROM titles on Music, the Internet, Utilities, Games, Shareware, Desktop Publishing, Adult and Educational categories.

requires: multimedia PC with at least 4 MB RAM, CD-ROM drive, 256 color VGA monitor, Windows 3.1 or better.

MATH MASTER

Five reference books for grades ranging from high school to 1st year college on algebra, trigonometry, geometry, statistics and calculus. Math concepts are fully explained and accompanied with easy to follow examples and illustrations. The formulas and theorems are presented in logical order and explained in simple English. Search function lets you quickly and easily search for formulas, theorems, rules and principles on each math topic or across the entire reference books. You can print out each topic or the complete reference book.

LEARNING WINDOWS 95

Learn all the features of Microsoft Windows 95 operating system. Over 2,000 screen shots, over 200 functions and processes explained. Find out what the hype is all about.

INTERNET

Interest on the Internet is growing as fast as the Internet itself. Everywhere you look you see mention of it. We have some titles that explain what the Internet is, one will allow you to build your own Web pages and one title, *Web Pages for Computers and Software*, is devoted to topics on computers and software on the Internet and another title, *Web Pages for Education*, is devoted to educational matters and the Internet.

Educational

Expand your brain with these titles

5,000 Fractal Art Gallery (3)
50 States
Art History Encyclopedia
Between the Wars 1918-1939
Botanical Encyclopedia
C Developers Toolkit
Calif. Street Surfers
Chinese Common Idioms & Games
Chinese Recipes
Complete Linux
Complete Works of William Shakespeare
Digital Gourmet
Educational Overload
Holy Bible
Interactive Chinese & Games
Kids Coloring Wonderland
Kids Songs in English and Korean
Learn DOS for Fun
Math Made Fun
Philatelic Encyclopedia Chinese edition
Preschool Entertainment
SAT Survival Kit
Secret of Korean Beauty
Secret Subjects
Solar Systems & Games
Stories in 7 languages
Study Guide to Foreign Languages
The Darkest Hour 1939-1941
Travelers Handbook in 6 languages
World of Education
1,000 Years Potala
100 Chinese Poems
History of Painting
Math Master
Visual Chinese Cookbook \$29
Visual Learning Guide on Windows 95

Desktop Publishing

You can never have too much RAM, storage, fonts or clipart

2,700 TrueType fonts
3,000 TrueType fonts
3500 Clip Art Korean edition
35000 Designer Clipart (1)
35000 Designer Clipart (2)
35000 Designer Clipart (3)
35000 Designer Clipart (4)
35000 Designer Clipart (5)
3D Animation
Aircraft Imagery
Animation Tour
CAD Tools and sample drawings
Clipart Library
Colorized Clipart
DTP Dream
Fabulous Photos
Graphics ProShop
Image Library
Image Library (1)
Image Library (2)
Image Library (3)
Multimedia Toolkit
Perfect Pictures
Photo Madness
Space Imagery
Textures and Backgrounds
Travel to Space

JCB Marketing Co.

604-980-7197
604-990-0552 fax

you're working on. If you don't like this arrangement, you can shrink the Help window to a narrow bar, until you actually need it.

While the bulk of the changes in Works has been directed towards ease of use for novice computer owners (as shown by the increased use of Wizards, and the on-screen help), there have been some additions to the basic feature set. For a while now, many programs have sported toolbars with a drop-down font list, the Word-95 equivalent shows how the fonts look—The name Times Roman is shown in Times Roman font, for example. Quotes are automatically changed to typesetters' curly quotes, rather than a typewriter's straight quotes that really stand for feet and inches—you can get straight quotes when you need them, but you have to ask.

You can store a collection of often-used items—your return address, for example, quickly adding them to your work, by selecting Insert Easy Text. You can use tools such as the Spell Checker with the spreadsheet and database, unlike the previous version, which limited it to the word processor. By default, the word processor shows a Page Layout view, with the page breaks, headers and footers appearing realistically on screen. You can now add a header (or footer) by moving to that area on the page, and simply typing it in, rather than memorizing codes like "&IHere's My Title" to obtain a header reading:

Here's My Title by Alan Zisman

If you prefer, you can select a more traditional word processor view. You can zoom in for more precise page layout, and can easily insert your choice of 24 bullet styles. For Canadians, there's a choice between a British and American spell checker.

Form letter, envelope, and label wizards simplify these common, but often confusing tasks.

The spreadsheet now features in-cell editing, in addition to the older-style editing bar. Database reporting has been simplified, while the output has become much more sophisticated. All documents can be sent directly as e-mail, and a number of additional import and export formats have been added.

The result of the new help, Wizards, and features

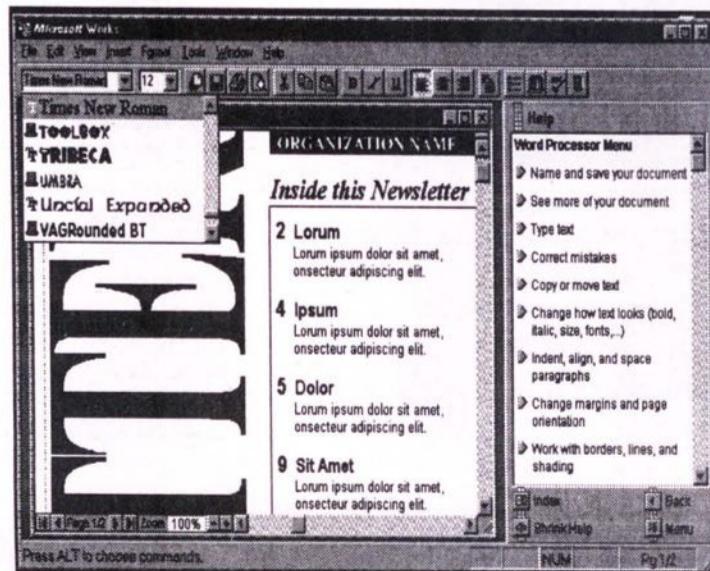
is a program that demands quite a bit more resources. While Works 3.0 needed about 13 megs of hard drive space, Works 4.0 wants up to 31 megs. (You can get it down to less than 6 megs, by dumping all the Help and Wizards, the spell check and other tools, and all the import and export filters... but that would be a pretty bare-bones installation). The program will run with 6 megs of RAM, but really (like Windows 95 itself) prefers at least 8 megs.

And there's a bit of a problem—in the past, many users of programs like Works chose it to use on home machines or notebooks—often machines with limited ram and hard drive space. I can't recommend Windows 95 for machines with 4 megs of RAM, and similarly, users with older or less powerful machines will have to put off upgrading to programs like this until they either beef up their current computer, or replace it with something more powerful. And in that case, many users will choose to go all the way—moving up to a much more demanding, but also more powerful suite such as MS Office, Novell Perfect Office, or Lotus SmartSuite.

And that's too bad—there's a lot to like in Works 95... and many users who get suites find that they only use a fraction of those program's features. Since Works can share document files with most of the big suites, it can be an easy-to-use, attractive alternative for many users, providing most of the features users really need, with less cost or overhead.

It's on sale currently for under \$100 (Cdn), but that price is supposed to rise after the New Year. If you get the CD-ROM version, you'll find the classic MS Bookshelf, with 1995 editions of 8 reference texts, included on the disk as a bonus.□

About the author: Alan Zisman can be reached at e-mail: alan_zisman@computer-player.com



MICROSEA

System Corp.

美高善電腦系統

Pentium PCI Standard System

- Pentium-Triton 75/90/100/133MHz Mainboard
- Intel P5 CPU with Cooling fan
- Built-in PCI/IDE & Fast I/O Controller
- 256K Cache on Board
- 8MB 72pin SIMM exp. to 128MB
- Panasonic 1.44 (3.5") Floppy Drive
- WD 850MB Hard Drive
- PCI VGA Display w/1M Accelerator
- Mid Tower Case w/200W CSA Power Supply
- Enhanced 101 Soft Touch Keyboard
- Acer View 14" .28mm NI VGA Monitor
- Microsoft Serial Mouse
- Windows 95 CD / Diskette full version

ASUS Pentium SCSI Dual Processor Neptune add \$200

P5-90 \$1,988 P5-120 \$2,338
P5-100 \$2,138 P5-133 \$2,588

Standard Local Bus 486 System

- 486 VESA / ISA / PCI Mainboard
- 4MB RAM exp. to 96MB
- Japan 1.44 + WD 635MB Disk Drive
- VL VGA Display w/1M Accelerator
- IDE VL controller w/Fast multi I/O
- Mini Tower or Desktop Case w/CSA Power Supply
- 101 Enhanced Keyboard + Graphic Mouse
- ProView 14" .28mm VGA Color Monitor
- Pre-loaded MS DOS 6.22 & Windows 3.11

DX2-66 \$1,188 DX4-100 \$1,288
DX2-80 \$1,238 DX4-120 \$1,338

110-4940 No. 3 Road
Richmond, B.C. V6X 3A5
Alderbridge Place
Tel: (604) 273-9233
Fax: (604) 273-9203

私人及商用電腦
售後服務
保證滿意

Multimedia Special

- Panasonic 2X CD CD-ROM
- Sound Blaster 16 + Speakers
- CD Bundle: MS Encarta 95, MS Works & Money, Hanna Barbara Sound Bit, & CD Sample

Special at \$229

- Acer Quad Speed CD-ROM
- Sound Blaster 16 + Speaker
- WITH same bundle as above or CD Pad

Special at \$359

Hard Drive Specials

WD 850MB EIDE	\$269
Quantum 1GB IDE	\$309
Quantum 1GB SCSI	\$389
WD 1.2GB EIDE	\$389
WD 1.6GB EIDE	\$539

Sales • Service • Repairs • Upgrade • Networking • Software

WE OFFER YOU TOTAL SOLUTIONS & AFTER SALES SERVICES!

First Class Novell Training from the Professionals

Our Certified Novell Instructors (CNIs) have many years of teaching experience as well as working in the field. Each instructor-led course includes the Double **DRAKE** Guarantee: Free Refresher Courses within 6 months Free Telephone support

70% of the networks in the world use Novell.

CNA (Admin)

- Improved job performance
- Eligible to join NPA
- Industry recognized certification
- CNA Advisory Council
- CNA Newsletter (future)

CNE 3 & CNE 4

- System Admin
- Adv. System Admin
- Install & Config
- Service & Support
- Networking Technologies
- DOS/Micro Hardware

Master CNE

- Network Management
- CNE-3, CNE-4 or CNE-U
- NetWare 4.1 Design & Implementation
- Fund. of Network Mgmt.
- Fund. of Internetworking

Our Certification is recognized around the world.

DRAKE
COMPUTER TRAINING™

3rd Floor
888 Dunsmuir St
Vancouver, BC
V6C 3K4

CALL 669-8789
FOR A COPY OF THE
CNE AND MASTER CNE
PARTICIPANTS GUIDE
& TO ENTER OUR DRAW
FOR NOVELL TRAINING
(VALUE \$1000 !)

New Employment Standards Act Will Affect Your Business

Richard K. Acton

The new Employment Standards Act comes into effect this fall. The new Act replaces the old Act and will have an impact on all businesses in British Columbia.

Who and What is Covered

The Act has expanded the categories of

employees covered. Many people who were not included in the past are now covered under this Act. This includes fishermen, forest fire fighters, taxi drivers, caretakers and disabled employees. The Act was not extended to cover professionals or independent contractors. The independent contractors issue was a particular concern at the time the legislation was being drafted and it is fortunate, I believe, that it was not extended to them.

The work included has been expanded and now includes work performed at an employee's home. Consequently, an employee who works on his computer at home in the evening, may be entitled to overtime.

As an employer, you must post several notices. These notices will include a statement of the employee's rights under

the Act, shift schedules, a copy of the Employment Standards regulations and any variance orders.

Don't Forget the Paper

In spite of the politicians continuing promise to reduce the paper burden, this new legislation will increase it. For purposes of the Employment Standards Act, you will now be required to keep the following records for seven years:

- all payroll records
- approval of flexible work weeks.
- substitution of an alternate statutory holiday.
- agreements with employees for reimbursements re cleaning and repair of clothing.

Further, employees must be given a detailed wage statement each time they are paid as opposed to only the times there has been a change in pay.

Again, in keeping with a philosophy of increased bureaucracy and paper flow, employers must now provide the director of employment standards with information to enable him or her to establish and maintain a register of employees in private residences. At this point in time it is not clear whether this will cover employees' residences or employers' residences or both.

Some Flexibility

The director of employment standards has greater power to grant variances within the regulations. He or she must be satisfied that any variance is consistent with the legislation and that a majority of the employees affected approve of the request. The following variances may now be requested under the Employment Standards Act:

- paydays.
- special clothing.
- notice of change in shift.
- minimum daily hours.
- maximum working hours.
- hours off.
- overtime wages for employees not on a flexible work schedule.
- notice requirements and termination pay requirements for group terminations.
- the time period required for a temporary lay-off.

Changes in Benefits

Statutory holiday pay will now be pro-rated. Under the previous Act, an employee had to work 15 of the preceding 30 calendar days in order to be paid for the statutory holiday. This has been eliminated and now an employee on the payroll will be paid for the statutory holiday on a pro-rata basis, regardless of the hours worked.

Some issues being legislated are largely common sense and complied with by the majority of employers without legislation. However, for those with a stone-age mentality that need to join the 20th century, the employee has the following entitlements under the new legislation:

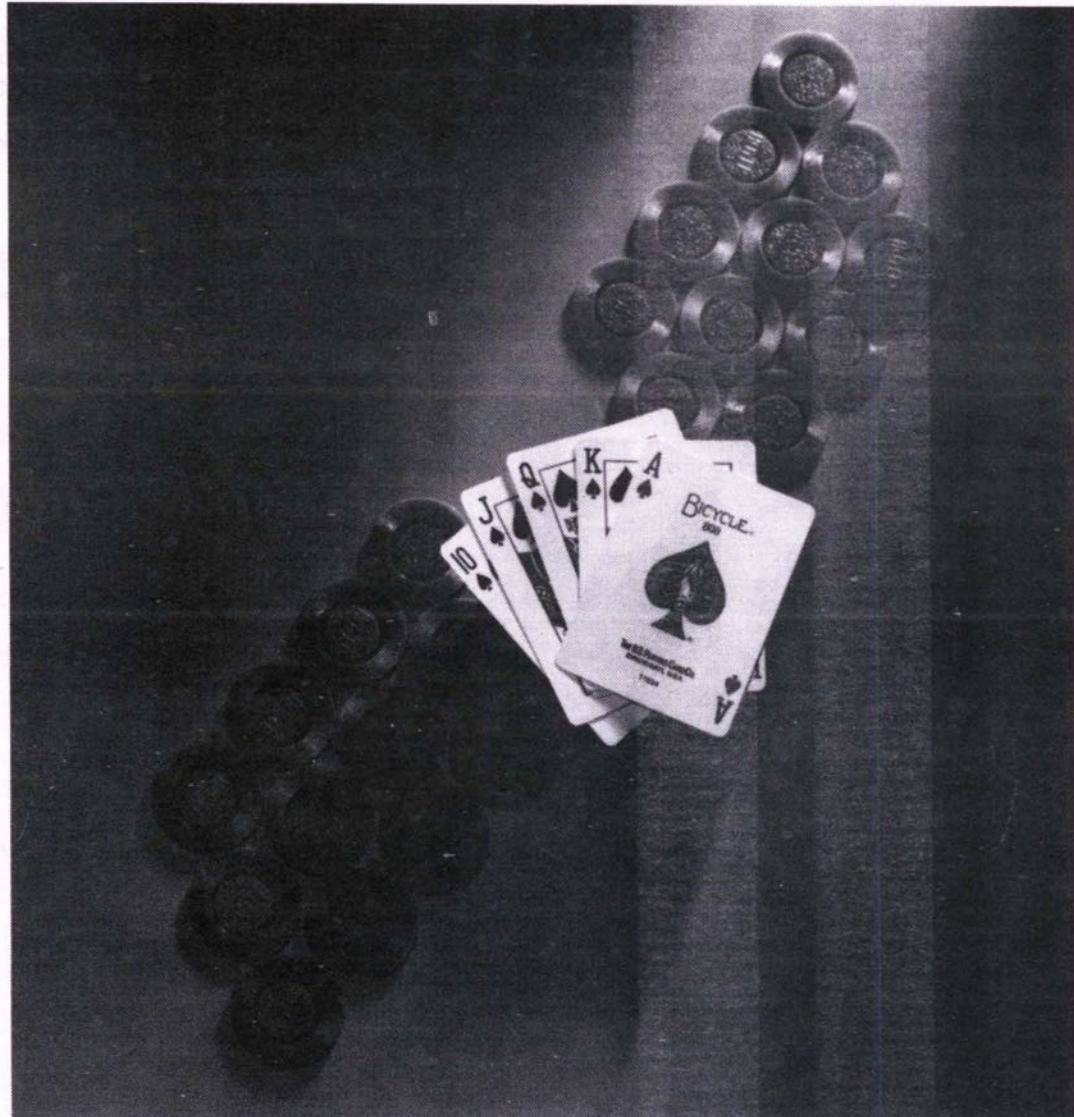
- up to 5 days of unpaid leave during each employment year to deal with matters pertaining to the care, health or education of a child in an employee's care or the care or health of any other member of the immediate family.
- up to 3 days unpaid leave on the death of a member of the employee's immediate family.
- leave of absence to attend court as a juror and to return to the same or comparable position.

The employee's entitlement to vacation, termination notice and benefits will continue during any of the above leaves.

From the employee's point of view, one of the negatives may be that those employers who were paying for the above items may now elect to do so on an unpaid basis as the government sets the standard.

The Act no longer has a provision allowing an employer to force a pregnant woman to go on

Your Best Business Bet



Running a small business is a risky undertaking. Every business owner knows how important making the right choices is to survival.

That's why choosing the right barter exchange is one of the most important decisions you can make. ITEX is the nation's leading barter company with over 100 offices in major cities coast to coast and thousands of other barter minded businesses waiting to do business with you.

You can't afford to take chances with your growing company. Bet on a sure thing, and choose ITEX for your barter business.



ITEX Bartercard, PO Box 82008, Burnaby, B.C. V5C 5P2 Tel: (604) 521-7911 Fax: (604) 521-7944
Nasdaq Stock Symbol: "ITEX"

maternity leave. A pregnant employee will now receive the same treatment as an employee with a disability.

Termination

The Act has set new terms with respect to termination of an employee. An employee is now entitled to the following notice:

- a. after three months of employment - one week.
- b. after one year of employment - two weeks.
- c. after three years of employment - three weeks.

This will continue year by year to a maximum of eight weeks. Under the new Act, notice can be severance pay, notice, or a combination of both. Severance pay must also be paid within 48 hours.

A termination notice will have no effect if the notice period coincides with a period during which the employee is on vacation, leave, strike, or lockout or is unavailable to work because of the strike or lockout or medical reasons.

Minimum Wage

As the government maintains a large welfare and social services industry, the minimum wage as of October 1st is \$7.00 per hour for all employees. This ensures that employers will move to automate more positions for which this wage is excessive creating more demand for welfare programs.

Enforcement and Penalties

Complaints must be filed within six months of the date the contravention is claimed to have taken place. Wages which may be claimed are limited to the 24 month period before the earlier date of complaint or

termination. In addition, third parties may now file a complaint on behalf of employees. It is my understanding that in the United States, unions have been very active in filing third party complaints against non-union companies to assist organizing.

Breaches of the Act are an offence which may result in a charge and a fine. There are new measures to penalize employers who contravene the Act including:

- a. interest payable on money owed from the date it is owed, if it is more than 23 days.
- b. an employee officer, director, or agent of the company who is responsible for a breach of the Act may be assessed a monetary penalty along with the company.
- c. The director of employment standards may publish information relating to contraventions of the Act for use by potential employees and contractors.
- d. if the Act has been contravened, the employer can be ordered to post a bond for payment of wages or supply a letter of credit.

Personal Liability

A director or officer of a corporation is personally liable for up to two months of unpaid wages for each employee. However, the director is not liable for termination pay, vacation pay or banked overtime.

Appeals

An employment standards tribunal has been established. This tribunal has the power to determine appeals and to exclude classes of persons from all or part of the legislation or regulations.

Information Line

The government has established an information line to respond to questions about the new Act and its regulations. In the Lower Mainland, the number is 660-4000 and elsewhere the toll-free number is 1-800-663-3316.

I would like to acknowledge the Canadian Federation of Independent Business of which I am a member, and whose newsletter provided much of the information for me to write this column. The Canadian Federation of Independent Business is a worthwhile organization whose members are independent businesses. Its role is to attempt to influence government on matters affecting the business community. It has enjoyed some degree of success in minimizing the damage that government legislation does to small business.

If you are running a business, I encourage you to join. The annual membership is a worthwhile investment in making politicians, the bureaucracy and others aware of the issues facing small businesses. □

About the author: *Richard K. Acton, F.C.A. is with Acton Gunderson Chartered Accountants. He can be reached at (604) 734-4871 or (604) 734-9211.*

BOE Trade Fair 95

John Madsen

On Saturday afternoon, November 25th, BOE (Business Opportunities Exchange) will host its fourth annual Trade Fair at the Caribbean Cafe Banquet Room in New Westminster. The event is "economically bilingual" ... which means barter or cash is accepted on purchases.

Barter awareness is increasing in Canada. In 1987 there was hardly any barter presence anywhere but in British Columbia and Quebec. Today, at least 15 barter companies operate in the Toronto area alone. Several of these have opened satellite offices in Vancouver. Industry giant, Portland's ITEX Corp, is supporting Quebec's Troc Canada in its expansion plans.

Barter is basically a marketing tool. It is the "hamburger helper" of business. It stretches cash while bringing in new customers ... two very necessary ingredients for success in any business. Surplus inventory, unproductive assets and excess capacity can be exchanged for valuable products and services. *InterNet* and *BarterWire* now facilitate trading on a global basis.

For British Columbians, the annual BOE Trade Fair offers a practical insight into the exciting world of barter. The blending of cash and barter makes it a unique event. Cash is required for all Trade Fair transactions unless a "Bartercard Accepted Here" sign is displayed. Collection in cash, of the applicable Federal Goods & Services Tax and British Columbia Sales Tax, is at the option of the seller.

Doors open at 1 pm. There's no charge for admission, and everyone is welcome at the BOE Trade Fair. Products and services committed include works of art, quality cook books, gourmet sauces, computer software, giftware, media advertising, commercial insurance, gift baskets, health products & services, sales seminars, carpet cleaning, greeting cards & prints, shampoo, music lessons, gift subscriptions, books on business & accounting, plus seasonal plants & flowers.

A very timely gift, incidentally, is a subscription to CANADIAN MONEY SAVER ... Canada's premier personal finance magazine since 1981. It's funded by 30,000 subscribers ... not by paid advertising. This means readers receive practical, unbiased financial information from dozens of experts on Canadian financial planning. Also, they don't have to rely on a single investment adviser.

While the Caribbean Restaurant itself will not be open, refreshments will be available. Coffee or juice is \$1.00 and meat or vegetarian Jamaican Patties are \$2.00 each.

The November 25th BOE Trade Fair offers the opportunity to make your Christmas shopping dollars go further! PLUS you gain a valuable insight on using barter as an effective alternative to cash. Bring your business cards and let others know about your business.

About the author: *John Madsen, a Chartered Accountant by profession, is President of ITEX Bartercard and may be reached by E-mail at john_madsen@mindlink.bc.ca or by phone (604) 521-7911 or fax (604) 521-7944*

佳年旅館 the Grange

APARTMENT / HOTEL

165 Grange Ave.,
Toronto, Ont. M5T 2V5

Tel: (416) 603-7700
Fax: (416) 603-9977

Downtown Toronto
in the Heart of Chinatown
位于唐人街市中心

Minutes from the CN Tower, SkyDome,
Metro Toronto Convention Centre
and the

Canadian National Exhibition
舉步可達商業中心

Steps to Public Transit
Comfortable Studio Rooms with Kitchenette, 4 pc Bath,
Colour Cable TV, Telephone, Airconditioning and
Laundry Room on Every Floor
Parking Available

Economical Rates

Major Credit Cards Accepted
Mandarin and Cantonese Staff
經濟實惠 國粵語服務

Business and Tour Groups Welcome
Ask about our Tour, Dinner & Show
Packages
歡迎商業或旅游團
Toll Free 1 (800) 567-1893

The Royal Hong Kong Jockey Club invites you to Cloverdale Raceway

Friday, October 27, 1995

□ The evening begins with a ten-race card of harness races on-track at Cloverdale. First Post 7:00 p.m.

□ Then at 10:30 p.m. you can watch and wager on
an eight-race simulcast from

SHA TIN RACECOURSE

SHA TIN RACING INDEX at Cloverdale

Thursday afternoon, October 26.

Full concession services continue through the evening.
Telephone Account Betting available. Free tip sheet.

To make your visit or revisit to Cloverdale more
enjoyable on Friday, October 27, clip this coupon.



Cloverdale Raceway

17755 60th Avenue, Surrey

576-9141

Valid only at Cloverdale Raceway, Friday, October 27, 1995

ONE FREE

Admission

Only original coupons are valid

CD ROM Titles

EDUCATIONAL

Art History Encyclopedia
Botanical Encyclopedia
Chinese Common Idioms
Chinese Cookbook
Chinese Text Reader
Digital Gourmet
Educational Overload
Edumedia(Sounds)
Electronic Bookshelf
Holy Bible(King James Ver)
Home & Business Legal Adv.
Interactive Chinese
Kid's Coloring Wonderland
Mini Story Time
Philatelic Encyclopedia
Preschool Edutainment
S.A.T. Survival Kit
Secret Subjects
Traveler's Handbook
World of Education

GRAPHICS

3000 True Type Fonts
Animation Tour
ANSI-mania
Clipart Library
Desktop Publisher's Dream
Designer Clipart Vol.1
Designer Clipart Vol.2
Designer Clipart Vol.3
Designer Clipart Vol.4
Designer Clipart Vol.5
Fabulous Photos
Fractal Art Gallery Vol.1
Fractal Art Gallery Vol.2
Graphic's PRO-SHOP
ICON Library
Image Library I
Image Library II
Image Library III
Multimedia Toolkit
Perfect Pictures
Travel To Space

Some gift ideas:

Math Master

This 5-in1 reference source CD covering Algebra, Trigonometry, Geometry, Calculus, Statistics is a complete reference books for high school students or college freshmen.

- * Textures Pro vol. 1
- * Textures Pro vol. 2
- * The history of Painting

Buy 5 get one FREE

\$17.99
each
plus tax & SH

BMP Publishing Ltd.

To order call (604) 739-6588

7 days Money Back Guaranteed!

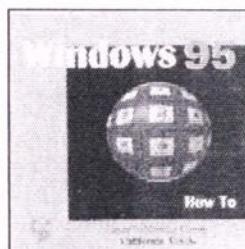


ENTERTAINMENT

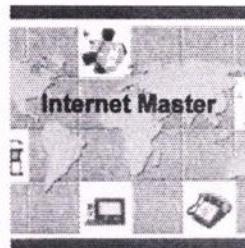
100 New Dos Games
3-d Manai Games
3-D Mega Games
350 Games Disc
49er Windows Games
50 Window's Games Vol.1
50 Window's Games Vol.2
50 Window's Games Vol.3
50 Window's Games Vol.4
50 Winodw's Games Vol.5
All You Can Play
Doom Expert
Family Fun
Games Galore
Killer Games Collection
LasVega Casino Games
Power Stick Games
Puzzle 5000
Sim City 1.0
Window's 51 Games
World's Greatest Game Disk

MISCELLANEOUS

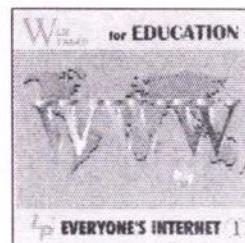
50 Window's Applications
Bugs Bunny Cartoons
Business Library
"C" Developer's Toolkit
Championship Wrestling #1
China Traveler Sampler
Complex LINUX (Winter 95)
Compu-Fix
HAM Toolkit
INTERNET Toolkit
Massive MIDI Collection
MIDI and WAV Workshop
Music Toolbox
OS/2 Collection
Sound library II
Super Shareware Collection
Top 101 Multimedia
Utilities GOLD Collection
Window's At It's Best
Window's Programs



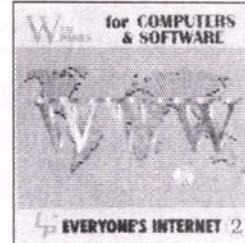
Windows 95 How To
It shows users how to unlock the power of the MS operation system of the future and become Windows 95 literate. Preview and learn about Windows 95 before buying it.



Internet Master
A comprehensive reference source covering Internet Dictionary, Reference, FAQ, Internet How-to, Web pages of Internet resources, lets you access Internet, get free hours to try.



Web Pages for Education
Over 2000 actual WWW pages provide you all educational information for K-12 teachers, college & university faculty, parents, students, and lifelong learners.



Web Pages for Computer & Software
It provides users a database of the Hottest new Web sites of Archives, Companies, PCs, Graphics, Hardware, Literature, Network, Programming, Unix, Multimedia, etc.

Good CD-ROM producers wear many hats

(Continued from page 44)

CP: Then...what does it take to be able to produce a good interactive, multimedia product?

Claudio: The multimedia producer must be able to perform a wide variety of functions. He or she must be a writer, a video producer, an animation director, a creative director, a project manager and a marketing specialist...to name a few! But please don't get me wrong; I wouldn't want to discourage any future multimedia producers reading this. All of the skills I mentioned can be acquired over time and with experience, or the necessary talent can be hired if budgets permit. The important ingredients required to succeed as a multimedia producer are drive and creativity, as well as the ability to really enjoy learning and working with new technology.

CP: Do you actually fulfill all those functions you mentioned?

Claudio: Not anymore. Right now I have a team of more than forty talented people who help me to produce our CD-ROM products. But when I started, I basically had to do everything myself. However, I still apply the skills I acquired through the years, to everyday situations which arise here at Microforum.

CP: How much money is required to produce a multimedia product?

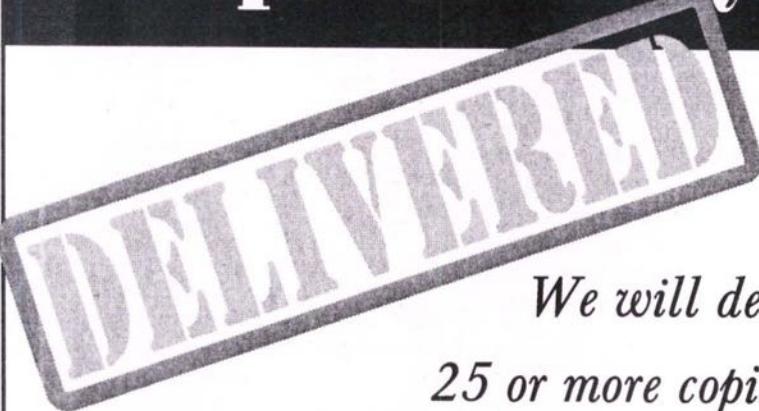
Claudio: I have produced products for as little as \$5,000 and as much as \$1 million. Obviously the more money you have, the better chances you have for the product to succeed. But there are ways to produce a CD-ROM economically and still make it a success. The majority of money is usually directed to marketing. Therefore, one way to save money is to form a strategic partnership with a company which can handle distribution. For example, right now we save money on our products by distributing them ourselves in more than 50 countries. We often are approached by smaller multimedia producers to help them market their products.

CP: What will the future bring for multimedia production?

Claudio: I am convinced that the future of CD-ROM and multimedia production will be as great as the feature film business. Every year the budgets on interactive multimedia production are shooting up and I definitely see a lot of job opportunities materializing in this field in the near future. Microforum is always looking for talented CD-ROM producers. □

About the author: Philip Hyams is a freelance communications consultant and writer living in Toronto.

Computer Player



We will deliver

25 or more copies of

Computer Player for free

to your office or organization.

For more information please call

(604) 739-8266

or fax: (604) 739-3589

Apple Financial Chief Quits

Joseph A. Graziano is leaving as Apple Computer Inc.'s chief financial officer by the end of the year. He is stepping down, he says, "due to differences in opinion with the CEO."

Apple's board of directors reaffirmed its full support for President/CEO Michael H. Spindler during a regularly scheduled meeting of the board on Oct. 3.

Apple Chairman A.C. (Mike) Markkula told the wire service, "The board will continue working with Spindler to address the challenges and exciting opportunities we face in the dynamic personal computer industry. The unprecedented demand for our new products demonstrates the growing appeal of the Macintosh platform. We are committed to actively working with the management team of Apple under Spindler's leadership to create value for our shareholders."

Apple said in a statement that Graziano, executive vice president and chief financial officer, announced his intention to resign as a director effective immediately and leave the company by year end.

On the situation, the Associated Press comments, "Due to a number of missteps, Apple has been unable to keep up with surging demand for its new Power Macintosh line, which was supposed to boost its lagging market share for personal computers. A shortage of parts and chronic underestimation of demand raised speculation that the company's board would look at significant management changes at its regular meeting."

The wire service also notes, "While Spindler has enjoyed Markkula's support and has been credited with engineering the transfer to the Power Macintosh line, some observers have noted that Apple's board ousted John Sculley two years ago at a time of weak profits and doubts about the company's future."

AP quotes Dataquest Inc. figures as indicating Apple's share of the worldwide market — which fell from 9.4 percent in 1993 to 8.5 percent last year — has dropped to 7.4 percent in the current quarter.

Some Apple Business May Be Sold

Apple Computer Inc.'s highest executive is hinting the computer maker may be forced to sell part of its business in order to focus on more competitive areas.

The New York Times this morning quotes Apple CEO Michael Spindler as saying, "There are crucial decisions that are going to have to be made about letting go of some parts of a business that are quite unnerving to some people including ourselves."

Spindler discounted reports Apple is seeking to merge with another company, acknowledging talks of alliances with IBM and other computer companies had taken place, but said no decisions had been made. "The big question is how we will stand together," he said.

Spindler told the paper his company has made mistakes, but that it will become increasingly profitable. As reported, Apple earlier this year hit production snags and underestimated demand for its Power PC line of computers.

Said Spindler, "This has been the most difficult quarter in the history of

Apple Computer. Give us one strong quarter and all this will go away."

It has been a busy week for Apple. As reported earlier, Joseph A. Graziano announced he is leaving as Apple Computer Inc.'s chief financial officer by the end of the year. He is stepping down, he says, "due to differences in opinion with the CEO." Subsequently it was reported that Graziano's resignation apparently came after he failed to convince the board and Spindler that the mature thing for Apple to do was to sell or merge the company.

Apple Relinks Subsidiaries

Apple Computer Inc. has moved its Apple USA and Apple Canada subsidiaries into a new geographic division called Apple North America.

Apple says the new division is aimed at leveraging the proximity and market similarities between its U.S. and Canadian regions. James J. Buckley, the former president of Apple USA, has been named president of Apple North America. Peter Jones will remain president of Apple Canada and will report directly to Buckley.

Apple Canada, which was previously part of the Apple Pacific region, will continue to operate as a separate and distinct subsidiary, says Apple, and will maintain its distribution, service, and operations mandate in addition to sales and marketing. The subsidiary will continue to be managed by its Canadian staff.

New Monitor From Apple

Apple Computer Inc. has begun shipping the Apple Multiple Scan 1705, a 17-inch color display for PC and Macintosh systems.

The US\$819 product offers a 15.8-inch viewable image size, plus a flat-square shadow-mask picture tube with a 0.28 mm dot pitch. A multiple scan technology lets users switch to the resolution most appropriate for the work being done.

For Macintosh users, Apple provides software that allows users to switch between three different viewing modes: Page- Layout, for viewing two full pages simultaneously; Publishing, which provides a 72-dot-per-inch resolution for everyday work; and Presentation, which mimics a 14-inch color monitor.

Crescent City Software
Specialists in software development for Macintosh systems

Relational Databases, Web Sites
System Design, Consulting & Training
Networking, Desktop Publishing
Word Processing, Spreadsheets

Phone (604)739-1714 Fax (604)739-1761
Iklam@wisc.net CompuServe 71273 3475
http://aws2.cybernet.ca/crescent_city

Linoplus

We support Chinese
我們支援中文

Digital Pre-press Centre

From Scanning to Colour Proofing...

Live Picture 2.0! Come see to believe!

Mac 和 PPC 版同步推出! 原價 US\$3995

最新訂價

US\$799.00 only!

歡迎來電垂詢及電約示範。

Wait no more!

Performance Comparison (PowerMac 6100)

	Live Picture 2.0	PhotoShop 3.0
File size	69Mb	39Mb
Operations	Open, rotate 180°, blur, sharpen, flip, Convert to CMYK, Rotate -180°, resize image to 8.5"X11" 300dpi	
Time/ RAM used	4min59sec (24.5Mb RAM)	8min20sec (100Mb RAM) 15min49sec (50Mb RAM) 18min15sec (24.5Mb RAM)

Short run colour

Scanning... 30 to 48 bit ...

Linotronic Output... to 360 lpi ...

Digital Prepress... trapping ...

Shortest turnaround time ... 4 hours ...

Colour Separations ... guaranteed 100%

Descreening ...

Call
604

879-6603

Mac Station

Quicken 5.0 for
Macintosh

\$39

Limited Quantity

Apple's Christmas
Promotion begins soon.
Phone for details!



Mac Station
Online

Browse our catalogue or place an order for
any Macintosh product 24 hours a day over
Internet at <http://www.macstation.com>

Outside Vancouver call toll free: 1-800-563-MACS
We are Authorized to ship Apple products throughout Canada!

Our service department is open for warranty and non-warranty repairs on all Apple products!



22353 Lougheed Highway, Maple Ridge

466-0190 / Fax: 466-0154

email: sales@macstation.com

World Wide Web: <http://www.macstation.com>



Authorized Dealer

ZOOM INTO THE FUNZONE

Come play on the newest, most complete adult entertainment BBS. With the hottest, most erotic GIFs (in amazing high quality!), sizzling live chat, e-mail, and discussion forums, plus games galore! Try your hand at a little poker or black-jack. And it's all FREE!

Zoom into the FUNZONE for an experience you'll never forget. Call now

011 852 172 97 979



The Ultimate BBS.

Over 18's only. International calling rates apply.

Cyrix releases fastest CPU for Windows

Cyrix claims a Winstone 95 performance rating of 217 for its 6x86 processor, formerly called M1, running at 100 MHz. This figure rivals what Intel's Pentiums running at 133 MHz can perform.

The Cyrix 6x86 is a sixth generation superscalar, superpipelined processor. The chip features register renaming, data dependency removal, multi-branch prediction, speculative execution and out-of-order completion capabilities. It has an 80-bit floating point unit and a 16k primary cache. Steve Tobak, VP of corporate marketing at Cyrix said, "the bottom line is that no processor today runs Windows software faster than the 6x86."

Meanwhile, a sixth-generation chip from Intel, the Pentium Pro, is scheduled to be introduced later this year in powerful desktop workstations for engineers and scientists and in servers.

PC Magazine tests report computers with a version of the new 6x86 ran 30 percent faster than computers using Intel's current Pentium.

Analyst Antoine Tristani of Southcoast Capital Corp. in Austin says he expects Cyrix's sales to nearly double to US\$482 million next year, compared with a projected \$263 million this year. "This is the first time that anyone has been at the high-end of Intel in the history of microprocessors. Now that they have a product that is compatible and with very high performance, the question is manufacturing capacity."

For more information, contact Future Active Industrial at (800)665-5488.

Epson combines Ethernet with fax/modem in PCMCIA

Epson announces availability of a PCMCIA Type II card with Ethernet and fax/modem functionality. The card comes in two models, each with twisted pair 10Base-T Ethernet. 10Base-2 coaxial cable versions will be available. The ELF 14NA has a data rate of 14.4Kbps and the ELF 28NA runs at 28.8Kbps.

The card runs LAN and fax/modem functions at the same time, eliminating the need to exit applications between functions.

The cards support OS/2 Warp and use special drivers that allow simultaneous functionality with current Card and Socket services and includes NDIS and ODI card services clients. The ELF is compatible with V.32bis and V.34bis depending on the data transfer speed. It also supports MNP-10EC for cellular users.

Intel intros new mobile chip set

Intel of Canada introduced its mobile PCI chip set with the 82430MX PCIset, a PCI chip set designed to maximize the full potential of Pentium based mobile computers. The 82430MX lets high-speed Ethernet and audio and graphic intensive applications run faster on mobile platforms. Windows apps can run up to 30% faster.

CDIS offers at home study of multimedia

Centre for Digital Imaging and Sound, located in Burnaby, BC is offering HELP or Home Extended Learning Program. This 12 month program allows students to take home a workstation with all the software to produce multimedia and computer based graphics work. This allows people to take a course and still work or meet other obligations that would prevent them from attending classes on a regular basis. Students also have access to a lab

with ancillary equipment such as scanners, CD recorders, printers, high end digital video capture and personal animation recorders. CDIS 604-298-5400

10Mountain jacked to 'net at 10Mbps

If you find jacking into the 'net way too slow, drop by 10Mountain and surf the 'net at 35 times the speed of your average 28.8 modem. Located at #10-435 Columbia St. near the Columbia SkyTrain station in New Westminster, 10Mountain rents time on Pentium 90s running Windows95 with 17" monitors plugged into the 'net with 10Mbps connections for 30 cents a minute. You can also use 486 machines for 20 cents a minute. Internet accounts start at \$5 per month or \$50 a year and advertisers can have their own Web page for \$30 per year. 10Mountain also designs Web pages, offers word processing (in many languages) and accounting. They also rent cellular phones by the day. 10Mountain 604-525-4773.

Intel's vision of the near future

Dr. Andrew Grove, president and CEO of Intel Corp. unveiled at Telecom 95 in Geneva, Switzerland his company's vision of communications and computing with a keynote speech and demonstration of "Smart Connections."

The term refers to the digital nature of communications and having a computer at either end of a telecommunications line.

"In the emerging new communications/computing industry, digital is the way in which people create information, send it to one another and play it back for viewing. They are doing this using the most ubiquitous digital device ever, the PC," said Dr. Grove.

Using a new multipoint ProShareT personal conferencing product, two community hospitals were linked to the Geneva audience to demonstrate how an ordinary PC combined with digital telecommunications infrastructure can improve the delivery of medical care in South Africa. The three-way exchange of medical data utilized Intel's ProShare VS200 Conferencing system, an HP 120-MHz Pentium PC and using ISDN, microwave and satellite communications technologies. A similar demonstration was done in a business context with a connection to a Japanese company and ideas were exchanged on a design. Dr. Grove then demoed a cellular global systems for mobile (GSM) modem with wireless technology from Nokia to conduct a full voice, data and video conference across the cellular connection on a laptop.

Real-time voice chat with synchronized lip movements was demonstrated over the Internet with a product from Enter Television Inc. A home page allowed one user to talk in real time with two others as talking heads.

Zad-All-Win Save Money Protect the Environment Give Disabled Persons Work

Use Remanufactured toner cartridges.

Visit us for those hard to find ribbons at less than half the cost of new ones.

100% Guaranteed

Zadall Systems Group and All-Win Workshops are pleased to announce...

Zad-All-Win

Together we have formed a business partnership which combines the strengths of both companies, and we are able to provide environmentally-friendly business products at noticeable cost savings to the customer.

All-Win Workshops Society is a remanufacturer of all existing and future toner and laser cartridges, plus printer ribbons and ink jets.

Find out how much money you can save. Check out our unbeatable prices. Examples of our special prices are: HP III & HP II P cartridges w/exch \$39.99 each, HP IV cartridge w/exch \$75.00.

In combining with Zadall, All-Win will be in a position to offer more opportunities to persons with any disabilities, showing what a great job these persons who face each day as a new challenge can do.

All-Win can be reached at 1-604-272-9921, 1-800-811-2888, or fax at 1-604-244-1169.

HOLLY COMPUTER CENTER

PENTIUM® processor power

INTEL Pentium® processor
PCI Green New Bios motherboard
256K High Speed cache
8MB 72pin SIMM RAM
1.08GB Enhanced IDE Hard Drive
2.88MB Floppy Drive
PCI Video Card 1MB exp. 2MB
I/O with 2S, 1P, 1G Ports
14" non-interlaced SVGA monitor .28dp
Enhanced 101 keyboard
Tower Case w/230W power supply
FREE: 3 button mouse & mouse pad

INCLUDE
SONY 2.88MB
Floppy Drive



New 4X Density

100MHz Pentium® processor \$1950
incl. PCI/8MB RAM/1.08GB HDD/2.88MB FDD

Fujita 486 System

ASSEMBLED IN CANADA

VESA Green New Bios Main Board
256K Fast cache
4MB SIMM RAM
560MB Enhanced IDE Fast Hard drive
1.44MB Floppy Drive
VESA Video Card 1MB
VESA IDE Controller Card w/2S, 1P, 1G Ports
14" non-interlaced SVGA monitor .28dp
Enhanced 101 keyboard
Tower Case w/230W power supply
FREE: 3 button mouse
FREE: mouse pad
FREE: 10 pcs. (1 box) 1.44MB Floppy Disk



DX2-66MHz \$1099
DX4-100MHz \$1179

FREE TRAINING!

All systems come
with (1) 80min. long
Computer Beginner Video Tape
Hurry in!!!!!!

All systems come with 2 years parts & labour
carry-in warranty

Come to visit us, we do speak Cantonese & Mandarin
Our Address is:
#9-4751 Shell Road, Richmond
Tel: 279-2580 / Fax: 279-2581
Mon.-Fri. 10:00-6:00 / Sat. 11:00-4:00

PRINTERS

CANON RE6 Copier Reduction & more.....\$999
HP 5P 2MB laser printer.....\$1250
HP 5MP laser printer.....\$1475
HP 660C color bubble jet.....\$599
HP 850C color bubble jet.....\$799

BlowOUT Special!

486DX2-66/DX4-100MHz (VLB M/B+CPU).....\$199/259

TRITON + 100MHz Pentium® processor (M/B+CPU).....\$769

560MB EIDE Hard Drive.....\$225

850MB EIDE Hard Drive.....\$265

1.08GB EIDE Hard Drive.....\$329



FREE INSTALLATION LABOUR*

NOTEBOOK
Special
from \$1995

DX2-66MHz (MONO/DUAL).... \$1995/\$2495
DX2-66MHz (ACTIVE MATRIX).....\$3795
upgrade to 8MB/16MB RAM.....+\$340/\$1020
upgrade to 850MB.....+\$585
Add PCMCIA 14.4 Fax modem.....+\$195

RAMania & PARTS

4MB/8MB/16MB RAM

\$180/\$340/\$635

14.4K int. FAX/VOICE modem

\$78

28.8K V.34 int. FAX modem

\$178

2.88MB Sony Quad Den. Floppy Drive

\$128

NEW

unbeatable!
NOTEBOOK Sale

FREE
FAX modem installed
TRACKBALL MOUSE

COMPAQ / IBM
486/4MB/125MB HDD/1.44FDD

\$1448

MULTiMEDIA

2X CD-ROM + S.B. (OEM)

\$189

4X CD-ROM + SB16 (OEM)

\$299

FREE
Speakers!

5 Microsoft CD titles incl. Encarta'95 only +\$99

PRINTER BlowOut!

CANON BJ-100 / BJC-4000 color bubble jet

\$268 / \$448

HP 540C colour bubble jet

\$428

CANON LB4 TRUE Laser Printer

\$569

SATURDAY Special
CRASH OUT

Used Parts start from \$2

* Due to inspection & not including accessory parts

- All prices are subject to change without prior notice

- All product names, logos, trademarks & registered trademarks are properties of their respective owner

- All prices are cash COD; Credit card add 3%

- Government and Corporate Purchase Orders Welcome

- Fax Orders and Bids are accepted

100MHz Pentium processor + PCI motherboard

\$699

DEALERS or WHOLESALERS only!

QUICKTEL USA 28.8 Fax Modem\$229
Creative Lab SB16 MCD.....\$125
VL 32 Bit-ide Yo\$25
10 Super CD Package\$68

TOP LINK

Smart shopping tips

for the quasi computer-literate

Yves Millette

It seems that high-tech has infiltrated every aspect of our lives these days. We talk about computers at the office, at cocktail parties, in our homes and at our schools, and we argue about PCs and notebooks, compatibility and storage, upgrades and bundles, software and firmware. But the truth is that for many of us, purchasing computers and peripherals has become incredibly challenging. Options have increased, buying considerations have become more complex, and we are never quite sure who to listen to when soliciting advice. Indeed, surviving in the high-tech world has become quite a bit of a challenge, and we are forced to admit that our computer know-how gets stretched whenever we head to the retailer to purchase our next computer,

peripheral or software. So in an effort to increase our collective know-how, I'd like to lay out a few key considerations that need to be made before purchasing a new computer.

The Computer

Processor Speed and Compatibility.

The most talked-about component in any computer is the central processing unit (CPU), or the brains of the computer; microprocessor speed is measured in megahertz. Generally speaking, the faster the microprocessor, the quicker it will run your applications. Most current desktop PCs feature either 486- or 586-class microprocessors, with speeds ranging from 50 megahertz (MHz) to 133 MHz. However, most major CPU manufacturers are beginning to shut down production of the slower 486-

class CPUs. This means the majority of desktop systems available today feature a Pentium-class (586) processor running in the neighborhood of 60 to 120 MHz. New P6-class CPUs (686) with speeds of 133 MHz and beyond will be available in early 1996.

Compatibility is a bit more complicated and can be expressed in two ways: compliance with the industry-standard "x86" microprocessor architecture developed by Intel Corporation, and compliance with widely used operating systems and software programs such as Microsoft's Windows 3.X, Windows 95 and Windows NT, as well as the Apple Macintosh System.

7. Fundamentally, if the microprocessor you choose is not compatible with a microprocessor in your previous computer, or it doesn't support your previous operating system, it's likely that you'll have a hard time converting programs and applications over from your old computer to the new one.

Some of the newest microprocessors enhance multitasking capabilities — that is, performing several functions simultaneously in one or more applications. This may be important to users who frequently run more than one program at a time — for example, marketing specialists who want to draft a new corporate brochure while printing out a 1,000-name mailing list. But multitasking is dependent on the operating system and available RAM, so if you aren't interested in speed for your applications, it's likely that you'll never realize any benefit by adding it to your checklist.

System Memory (RAM).

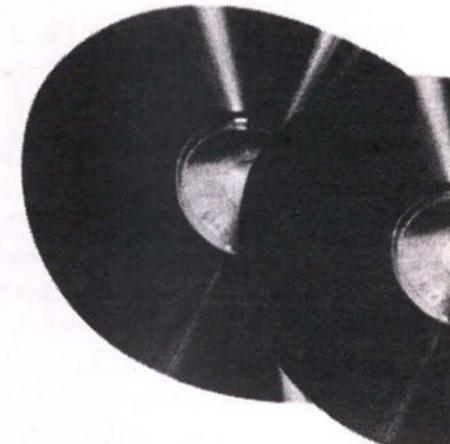
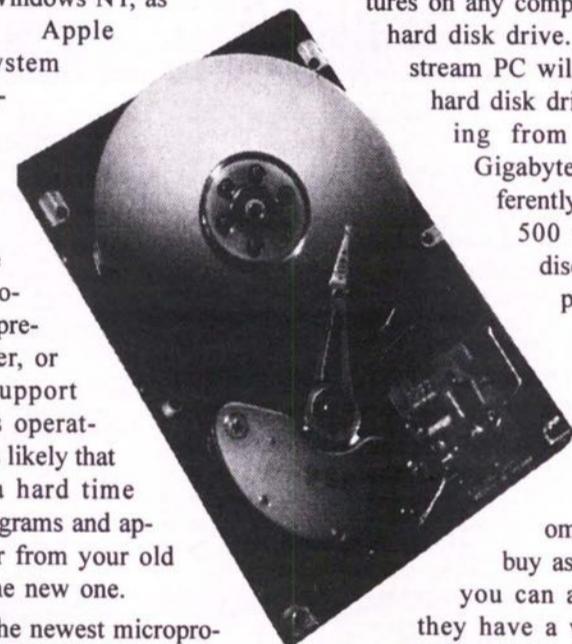
System memory is used as a temporary holding place from which the microprocessor draws data and instructions while performing computations; the more system memory, the better the performance of your computer.

Today's average PCs are configured with 4 to 8 megabytes (MB) of RAM, while a more expensive system may have as much as 128 MB. In today's competitive PC market, many computers now provide room for additional RAM, and if the model you are considering doesn't allow at least twice the current system RAM, be wary — you may need a minimum of 8 MB RAM as you become more proficient in the use of your computer.

Hard Disk Drives.

One of the most competitive features on any computer system is the hard disk drive. Today, a mainstream PC will typically have a hard disk drive capacity ranging from 540 MB to 1 Gigabyte, or to put it differently, the equivalent of 500 to 1000 floppy discs. The more expensive models may have capacities approaching 2 Gigabytes. Disk drive manufacturers are recommending that you buy as much capacity as you can afford, and while they have a vested interest in

saying so, there's more than a profit motive for this recommendation. The newest 32-bit operating systems and associated applications alone require more capacity than was even available just a couple of years ago. Add to that your user files and downloaded files from online services and the Internet, and you'll quickly consume a large portion of your hard disk. In fact, if you are a frequent user of multi-media presentation soft-



Iso-Soft Technology Market

240-167 W. 2nd Ave., Vancouver, B.C.
Tel: (604) 879-1817 Fax: (604) 879-1875

Multimedia Ready

Pentium 90 w/ Triton chipset

8 MB RAM

16550 UARTs, Enhanced Printer Port

Diamond Stealth 64 V

14" Monitor, N.I., Low-rad

1.08 GB EIDE HDD

Soundblaster 16 w/ speakers

4X CD-ROM

Microsoft Mouse or Logitech Mouseman

\$ 2250.00

a486DX4-100 w/ PCI motherboard

8 MB RAM

16550 UARTs, Enhanced Printer Port

Cirrus Logic 5434 PCI video

14" Monitor, N.I., Low-rad

1.08 GB EIDE HDD

Soundblaster 16 w/ speakers

4X CD-ROM

Microsoft mouse or Logitech Mouseman

\$ 1850.00

Customize your system:

P100/ P120/ P133 + \$ 150/ \$ 390/ \$ 575

EDO RAM + \$ 150

6X CD-ROM Drive + \$ 150

ATI Mach 64V 2 MB + \$ 225

ATI Mach 64V 4 MB + \$ 425

1.08GB -> 545 MB HDD - \$ 70

1.08GB -> 730 MB HDD - \$ 70

8MB -> 4MB RAM - \$ 140

CD-ROM/Soundblaster removed - \$ 325

Windows '95 + \$ 130

Chinese Software:

禁忌

超未來少女

逆玉王

獸鄉の守護者

炎龍騎士團2

中國

美少女特勤組

鐵甲旗艦

仙劍奇俠傳

特勤機甲隊2

紅色的誘惑

We also carry a large selection of Japanese CDs.

ware or graphics development programs, it's a good idea to buy a tape drive to back up your hard disk on a regular basis.

CD-ROM.

A large number of new desktop PCs now include CD-ROM drives as standard equipment, primarily because vendors of operating systems and application software are turning to CD-ROM as the medium of choice for transporting their programs to end users. In fact, the variety of high-quality applications, games, multimedia and educational software titles available on CD-ROM has grown tremendously in recent years.

Today, the two primary types of CD-ROM drives are dual speed (2x) and quad-speed (4x) CD-ROM. Both use laser-optic techniques for reading data from the disk. Originally designed for capacity rather than speed of access, the 2x version of these drives are notoriously slow, especially when it comes to accessing multimedia programs with video clips. Users generally find a dramatic performance improvement by purchasing computers with 4x CD-ROM drives.



PC Cards.

These devices, also known as PCMCIA Cards, pack a variety of peripherals into a plastic-encased device about the size of a playing card. Among the peripherals typically included in PC Cards are adapters for wired and wireless local area networks (LANs), as well as hard disks, flash memory devices, fax/modems and more. Some of these peripherals fit in Type I PCMCIA cards (the thinnest available); others require a Type II or Type III card slot. If you are going to use PC Cards (to transfer files between desktop and notebook computer systems, for example), be sure that the computer you buy has card slots adequate for the PC Cards you intend to use.

Modems.

If you intend to be surfing the net or staying in constant contact with the corporate office, you'll need a modem. Current modem speeds (expressed as kilobaud per second) range from 2400

bps to 2800 bps. In general, the faster the better, but if you're not going to be transferring intensive graphics files or very large data files, you may not need the fastest modem, although it's a good idea to have at least 14.4 Kbps.

Keyboards and Pointing Devices.

Most desktop keyboards are industry-standard 101-key models including QWERTY keypad, function keys, cursor control and numeric pad. New add-on keyboards are available that provide

EPSON HAS EVERYTHING YOU NEED TO SUCCEED.

PRESENTING THE COMPLETE FAMILY OF EPSON COLOUR SOLUTIONS.

Nothing succeeds like success. And, these days, success means colour. That's why we've created the EPSON Colour Solutions. From the extraordinary detail of our 30-bit colour scanners, and the breakthrough performance of our powerful notebook and multimedia PCs, to the Personal Document Station that feeds letters, clippings, memos, fax, e-mail, OCR, print, edit and electronically file documents, and the amazing 720 dpi resolution of our incredible EPSON Stylus PRO ink jet printer. These award-winning EPSON Colour Solutions are, quite simply, the most technologically-advanced products in their class. To discover your preferred Solution, Call the EPSON Connection at 1-800-BUY EPSON (1-800-289-3776) for details today. Because EPSON has everything you need to succeed.

EPSON



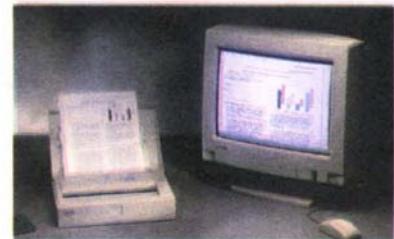
The ES-1000C 30-bit Colour Scanner



The ActionNote 880CX Notebook PC



The Epson Stylus PRO



Personal Document Station (PDS)



The ActionTower 8000 Multimedia PC

720 dpi printing requires EPSON coated paper 18e MSRP(sheet). Also prints 360 dpi on plain paper. EPSON and EPSON Stylus are registered trademarks of SEIKO EPSON CORP. All other trademarks or registered trademarks are the properties of their respective holders. ©1995 EPSON CANADA LTD. 550 McNicoll Ave., Willowdale, ON M2H 2E1

MONITORS

FOR
THE
NEXT
GENERATION



SCEPTRE®

EXCELLENCE FOR ALL THE WORLD TO SEE



SCEPTRE donates a portion of all profits to the Zoological Society of San Diego in support of C.R.E.S., the Center for Reproduction of Endangered Species.

© 1995 SCEPTRE Technologies, Inc. All Rights Reserved. All product and brand names are trademarks or registered trademarks of their respective companies.

JANUARY 1994
BYTE
BEST OVERALL
GENERAL BUSINESS
COLOR MONITOR

SCEPTRE Technologies, manufacturer of the BYTE BEST COLOR MONITOR --

1994, now introduces a new generation of monitors called the WINplay™ Series. Sceptre's new generation of Windows 95 displays are plug and play and DDC1/2B with a smaller, streamlined footprint.

Featuring On Screen Display, 32-bit technology and unparalleled image quality, the WINplay™ Series is available in all popular CRT sizes, including 14, 15, 17 and 21 inch.

Sceptre's WINplay™ Series offers a razor-sharp, next generation computer monitor to fit every application.

Find out more by calling

1-800-788-2878

"Brutus" is a monitor lizard

See Us At
COMDEX/Fall '95
Booth #S4444

Viewable Diagonal Screen Sizes:
14" CRT = 12.8"
15" CRT = 13.9"
17" CRT = 15.9"
21" CRT = 19.8"
TFT LCD = 10.2"
DSTN LCD = 11.4"

In U.S.A.

Tech Data
CORPORATION
1-800-237-8931

INGRAM
MICRO
1-800-456-8000

In Canada



(905) 477-6363
(604) 276-9986
LAPRO
(604) 244-7798



substantial ergonomic benefit. Most of these feature some variation on a contoured or hinged keyboard, enabling more natural hand and wrist positioning and reducing repetitive stresses.

There are also several new devices competing with the old "mouse"-type pointing device. While most of these devices are now used only in notebook computing systems, you can expect some of

them to show up on desktop PCs in the near future. Examples include stylus-and-finger-touch screens, as well as touchpads and trackballs.

Software Bundles.

A large number of computer vendors offer a wide variety of software packages that are preloaded onto their computers. But if you already have an adequate selection of software that you intend to transfer onto

the new computer, these bundles may be much more than you want. So, before you select your system, determine what software you will or will not need; you may prefer simply to buy a system without any pre-configured software.

Monitors.

Nearly every monitor or display is compatible with all current PC models.

SVGA monitors are more expensive and generate higher resolution images by using up to 1280 x 1024 pixels or dots with a minimum of 256 color variations (some monitors support "TrueColor," or application-specific color variations). VGA monitors can generate 648 x 480 pixel images in up to 16 colors. There's also a wide variety of screen sizes available, with an average range of 14 to 20 inches. If you're planning to use your system for engineering or design, multimedia editing or publication production applica-

PC AUCTION

COMPUTER STORE

New, Pre-Owned, Consignments
Computers & Accessories



Is your old computer getting the best of you?

Bring it to us, we will service it, put it on consignment and sell it for you.

Need a larger and newer computer but can't afford a new one, a little nervous on what you should buy



Come in to PC Auction and check out our find line of pre-owned computers, 486's, 386's, 286's,

Macintosh, Printers, Modems, Monitors, plus Accessories, Hard Drives, Memory, Etc:

Ph: 241-8555 Fax: 241-8589

7930 Williams Rd (corner #3 & Williams) in the high traffic area of Broadmoore Mall

Canadian Computer Wholesaler

THE COMPUTER RESELLER'S HANDBOOK

Yes, I want to receive (continue to receive) Canadian Computer Wholesaler. No
 New Subscription Renewal Change of address
 Name _____ Title _____
 Company _____
 Address _____
 City _____ Prov. _____ Postal Code _____
 Tel () _____ Fax () _____
 Signature _____ Date: _____ / _____ / _____
 (must be signed to be valid)

Are you involved in the selling, reselling, and/or distribution of computer/networking systems, software or services?
 Yes No

Which best describes your job function? (check one only)
 President/VP/owner/gm
 Branch, store, district, regional managers
 Channel, retail, value added resellers and managers
 Purchasing and merchandising managers
 Product development managers
 Computer consultants
 Technical management
 Design, system and application engineers
 Marketing, sales managers

COMPLIMENTARY SUBSCRIPTION

Which best describes your firm's primary business? (check one only)

- Hardware/software retailer
- Mass merchandiser
- Consumer electronics/office machine retailer
- Value added dealer/reseller
- Distributor/wholesaler/hardware manufacturer/OEM
- Software developer
- Systems integration/software consulting
- Government purchasing agents
- Computer maintenance/service company
- Other third party and allied service firms

The system my organization integrates or resells are based on the following: (check all that apply)

- DOS/Compatibles
- OS/2/Compatibles
- Windows NT
- Networking
- Unix
- Macintosh

What is the number of employees at this location?

(check one only)

- 10,000 or more
- 5,000 - 9,999
- 2,000 - 4,999
- 1,000 - 1,999
- 500 - 999
- 250 - 499
- 100 - 249
- 20 - 99
- Less than 20

What are your firm's approximate gross annual sales?

(check one only)

- Over \$50 million
- Over \$25 million - \$50 million
- Over \$10 million - \$25 million
- Over \$5 million - \$10 million
- Over \$1 million - \$5 million
- Under \$1 million

All questions must be answered. Incomplete cards will not be processed. The publisher reserves the right to determine qualification.

Mail to: #900-1788 W. Broadway, Vancouver B.C. V6J 1Y1 or fax to (604) 739-3589

Are you a computer
wholesaler, distributor
or manufacturer?

Then you need to talk to
computer retail owners, brokers,
consultants, government
purchasing agents,
consumer electronic retailers and
value added dealers/resellers.

Circulation of 12,000 plus
mailed across Canada

Free subscriptions
for qualified readers

Demand Print SYSTEM®

Intelligent solutions to short-run printing problems.



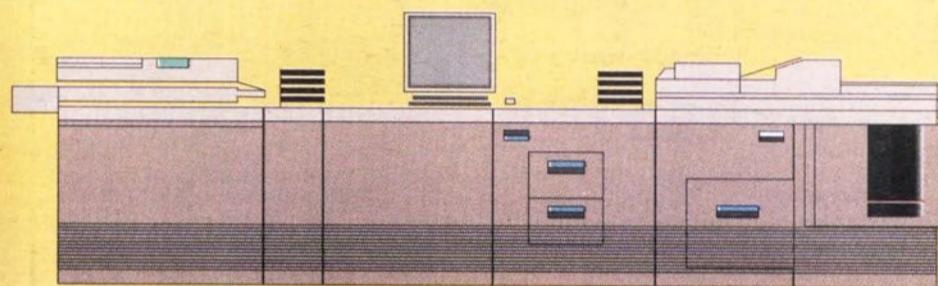
ELIMINATE:

- The cost of labour-intensive pre-press work.
- The set-up costs for reruns.
- Large inventories of printed documents.
- The high cost of colour separations.

Samco Printers Ltd. can image a file direct from disk or modem on a wide variety of paper (including cover weights), at a resolution shy of an imagesetter's. We provide a complete bindery service to turn your file into a great-looking professional product!

Your Mac or
PC compatible
files can be
brought on disk,
or sent to us via
modem...

BLACK & WHITE



...where we can output black and white files at 600 dpi resolution, on almost any paper stock



...fantastic halftones
(Great for newsletters
flyers, and reports!)

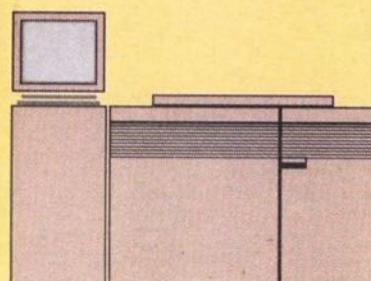


...binding & collating with
heavy covers (Technical
manuals, short run books)



...or with printed &
inserted tabs!
(binder pages, catalogues)

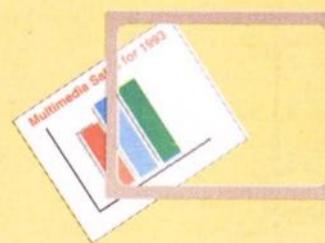
COLOUR



...for output on our colour printer, which
excels at continuous tone & spot colour



...making it perfect for short run
documents. (Flyers, client wowing comps)



...presentations, & transparencies
(Liven up your pitch)



...and signage or POP displays!
(11" x 17" offers great flexibility)

SAMCO
PRINTERS LTD.

3rd Floor, 830 West Pender Street,
Vancouver, B.C. V6C 1J8
Fax: (604) 681-1775

(604) 683-6991
"Leaders in Digital Printing"



tions, you'll want the largest available monitor with TrueColor support and the highest possible pixel density for maximum performance and display quality.

Peripherals

Users who want to purchase additional peripherals should plan ahead for them when purchasing the computer itself.

Printers.

Current print technologies include ink jet, laser, and dot matrix. Ink jet printers are faster and quieter than dot matrix printers, and with recent advances in ink jet technology, photo-quality color output rivals the output quality of multi-thousand dollar laser printers for a fraction of the cost. If color printing is not as high on your priority list as cost, a dot matrix or a low-cost monochrome laser may be a more appropriate solution. Dot matrix printers are extremely durable and compatible, offer quality text output, and are very useful in applications such as check and form printing, while lasers are exceptionally quiet, offer a crisp image, and print at the fastest speeds. As with other peripherals, the most important consideration when purchasing a printer is usage. Ink jet, laser and dot matrix all provide quality output, so you must first determine how you will use your printer, whether or not you need color, and then select the printer that provides the best price/performance to meet your needs.

External Peripherals.

The variety of available peripheral devices is growing steadily. Examples include CD-ROM players, modems and fax/modems, scanners, speakers and microphones, infrared and barcode readers, digital cameras and more. If you think you will need one or more of these devices, make sure your computer's peripheral interface will accommodate it. Also, be sure that your computer has

adequate system memory, storage capacity and processing power to accommodate the increased data throughput which some of these peripherals create.

Conclusion

Terminology aside, purchasing a computer system has

become more difficult as options have increased and as functionality and technology have become more affordable. The good news is, the bottom line is relatively straightforward: determine what base configuration you need and what options you want, and then select the system that meets your expectations for price and performance. □

About the author: Yves Millette has served as the Vice President, Sales & Marketing for Epson Canada since 1990. Epson Canada is affiliated with Seiko Epson Corporation, a global manufacturer and supplier of high quality technology products that meet customer demands for increased functionality, compactness, systems integration and energy efficiency.

THIS YEAR

Internet access from MIND LINK! opens up
a new world of knowledge and adventure.

GIVE THEM

Surf the Web. Send e-mail in a flash.
Download software. All in one convenient package.

THE WORLD*

Give them a gift they'll really use.
At a price you'll really like. (Starting at \$10!)

*...AND WE'LL GIVE YOU A FREE MUG (offer open to MIND LINK! members only)



MIND LINK!

phone: 668 5000
fax: 668 5028
e-mail: info@mindlink.net
web: <http://www.mindlink.net>

Quality Internet Access & Support. Since 1986.

Effective marketing in *CyberSpace*

You Are Tired of Busy Signals.
You Are Sick of Poor Service.

MOVE TO THE BEST.

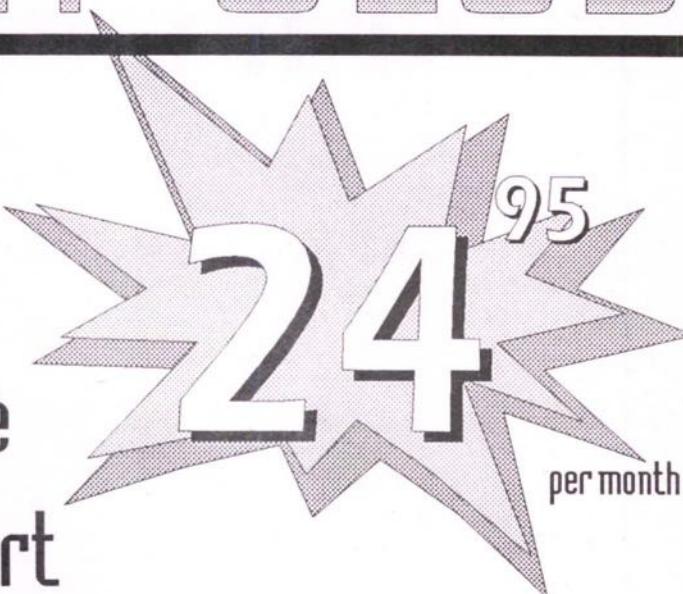
EXCLUSIVE INTERNET CLUB

Unlimited Time

500 Members Only

Less Than 10 Users Per Line

Accessible Technical Support



of world wide exposure, Galaxy had only received two or three hits on their page. They had been left hanging in cyberspace.

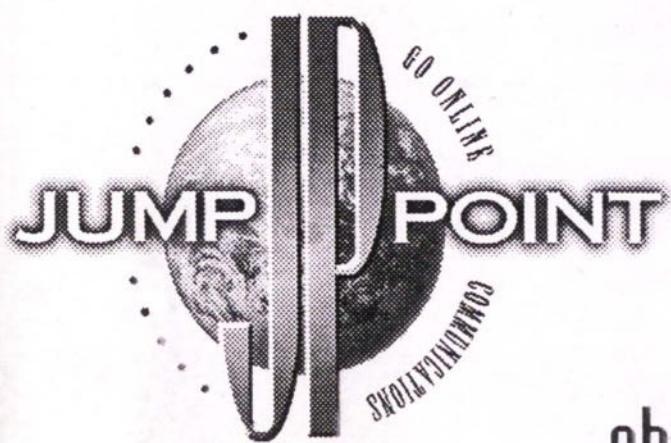
There are many companies offering a new and exciting way to advertise and approach new and international markets through the world wide web. They will build your page(s) and include them in their directory - for a fee. This is all well and good but a very minimal approach to establishing your company in front of a potential 35 million people. For example, the most common sales pitch for web pages today is that your page will be included in a site that gets a great number of hits. In other words, a high traffic area on the web. However, you cannot guarantee that people will "hit" your page! You have to hope that the users come to your page or pay more for placement on one of the top level or entry pages to the site to bolster your chances of traffic. You can only entice people to hit your pages but they can choose to surf where they want. You may want your web pages included in this site as part of your overall web marketing strategy. However, beware of the sales pitch offering web presence with high traffic because there is more to marketing your company on the web than being included in one high traffic web site or directory.

How will people find you on the internet? How can you interact with potential clients? How can you get your message across and invite people to surf your web pages? You need an internet marketing strategy.

Any web publisher should be able to offer this type of consultation. However, many are not interested in providing this service only publishing pages and many are not qualified to offer marketing consultation. There's more to internet marketing than a few announcements in newsgroups, inclusion in search engines or directories. On the web, marketing is as critical as solid technical background to a successful web presence, promotion or event.

Domain Names

You already have well designed pages utilizing the characteristics of the web to your advantage and taking particular consideration to your company's image and presentation. Before you publish your pages you need to consider a domain name (URL). This is the address that people need to locate you on the internet. Keep it short, relevant and as unique as possible. Domain names are not merely addresses but convey certain images to the users before they even see your pages! The domain name you

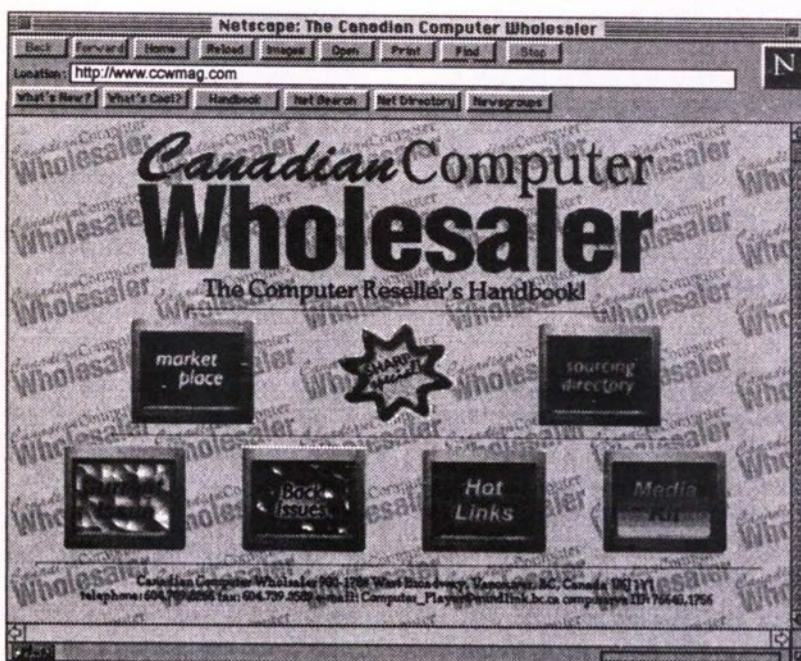


GO! Online Communications

info@jumppoint.com
<http://www.jumppoint.com>

8am - 10pm Mon - Fri
9am - 5pm Sat

phone 540-0271 fax 540-0272



choose may not necessarily be your company name but it is important to give considerable thought to the one you do choose because it is the first thing a user learns about your company. Registration of a domain name was free up until month ago. Now it will cost you \$100US to register. Some providers charge to have your own domain name on their servers and others offer it free of charge. However, any cost (\$25-\$50 / month) is minimal when you consider the marketing advantages of having your own unique web address.



Public Internet Access

You, or someone you know, would love to try our Lightning Fast Internet Access. It's for rent by the minute.

Our service uses several Pentium 90 computers, many running Windows 95 so you get a chance to try out the latest hardware and software in addition to connecting to wherever in the world you want to go.

Pentiums with a 17" monitor rent for 30 cents a minute. 486's from 20 cents a minute.

For new users we provide a membership Internet Accounts from \$5 per month or \$50 a year. Web Page advertising begins at \$30 per year. We create Web Pages too.

We offer other services, and software for accounting, word processing (some with multilingual capability), games or Encyclopedia searches

Rental Cellular Phones

Daily rate from \$2.99 plus air time.

New Franchise System for Public Internet Access Points

The 90's fastest growing and exciting communication

We setup, manage and run the sites

Call for details @ 1-800-463-9673

or see them at

<http://giant.mindlink/opportunity/>

Small investment, Big returns

\$8000 per franchise

10 Mountain Enterprises Ltd.

#10-435 Columbia St., New Westminster

(604) 525-4773

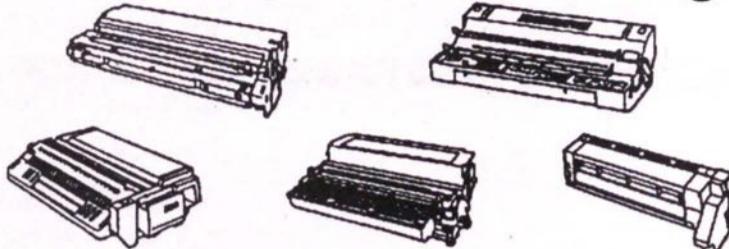
VISA 33% off with this ad. for Lightning Access



Does Your Office have a Recycling Program?

Conserve our environment and save \$\$\$ at the same time

Use Recharged Toner Cartridges



Alouette Laser provides remanufactured and refilled toner cartridges to laser printer users with savings up to 60%

100% Money Back Guarantee

We also carry other toners, developers & drum units. Cartridges are tested and completely disassembled when recharged

We also recharge cartridges for:

Photocopiers • Canon Personal Copier • Sharp Z-series Copier • Panasonic FP820

Laser Printers • HP Laser Jet I, II, IIP, III, IIP, IID, IIISi, IV • Apple • Canon • Brother • IBM • QMS • NEC • and more!

Laser Fax Machines

Onsite Cleaning Service — Rebuilt Fuser Assemblies

FREE PICK-UP AND DELIVERY IN GREATER VANCOUVER



114-3070 Norland Ave. Burnaby, B.C.

Call Today
291-8442

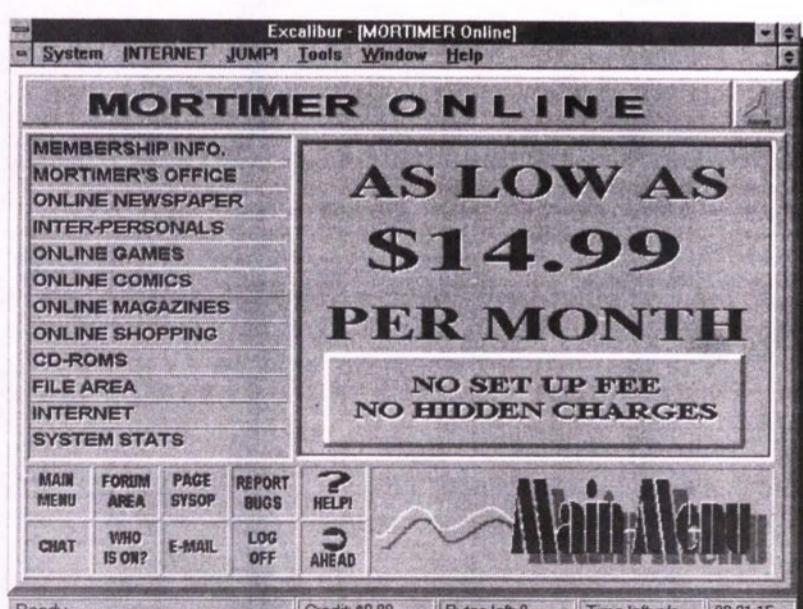
Fax: 291-8435

FULL T1 INTERNET CONNECTION

NOT JUST ANOTHER INTERNET PROVIDER

WIN A TRIP TO WHISTLER B.C.

ONE HOUR FREE TRIAL



- Windows Interface
- Point & Click
- Netscape, Eudora
- Email, Newsgroups
- IRC, FTP, etc.

Modem 294-2955

Voice 294-2995

info@mortimer.com

<http://www.mortimer.com>

120 - 2465 Beta Avenue Burnaby BC V5C 5N1

**"WE ARE NOT FAR FROM
THE DAY WHEN A COMPANY
WITHOUT A HOME PAGE WILL
BE LIKE A COMPANY WITHOUT
A FAX MACHINE."**

John Patrick
VP Internet Applications, IBM

Watch sales develop when you communicate your business on the Internet. People can learn more about your company from your Home Page than any existing advertising medium. Vancouver Internet Publishing will work with you to formulate a sophisticated approach to keep them coming back.

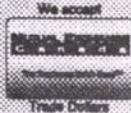
Call for a free Internet Marketing Consultation and take a look at your options before launching into cyberspace.*

vancouver internet publishing

604.924.2NET
marketing@van.com
<http://www.van.com>

*The one hour consultation will present an overview of authoring, design, marketing and technical requirements.

We accept Mutual Exchange of Canada trade dollars.



Computer Player
For advertising information, call (604) 739-8266

to join. Secondly, you can consult with your ISP and create a new group off of one of the hierarchies in the Usenet and invite people to join. Either way you can create a forum for discussion around your industry or product. This can be a powerful way to provide a very useful platform for delivering and monitoring industry developments and news.

E-mail

E-mail is probably one of the most abused methods of distributing information but also one of the most effective. Offering to mail people more information or to join a mailing list off your web pages can be an excellent resource for business contacts. Developing an e-mail newsletter that is distributed monthly to users who have already agreed to accept it gives you a captive audience. It is relatively easy and inexpensive to develop. E-mail newsletters provide a vehicle for your company to project a secure and intelligent image as well as providing business resources or industry intelligence. Simply networking with people through e-mail on the web is also an excellent method for connecting with people.

Signature Files

The use of a signature file (SIG file) can provide another avenue of introduc-

tion to your company. Your SIG file is the several lines of text which will appear on your Usenet postings and your e-mail. Typically they include company names, phone numbers, addresses, alternate e-mail addresses, the URL of your home page, achievements or projects with which you are involved. They can also include slogans, favorites quotes or ASCII art! Whatever you decide to include in your SIG file remember to keep it smaller for downloading purposes and clearly lay them out for ease of reading. More than once I've looked at SIG files for mailing addresses and phone numbers of people I wanted to contact or for the correct spelling of a company name. They provide key information for clients and present your company's vital contact information.

Traditional Marketing on the Web

Apart from the various electronic methods of marketing which require careful thought and strategic implementation, there are several simple ways for companies to market on the net. For example, buy an advertising spot on Netscape's "What's Cool!" page. Netscape's pages are frequented by everyone on the globe every minute of the day. All a user has to do is click on the icon bar and they go directly to your pages. There are many free directories

COMING SOON...

Computer Player
電腦世界

computer player web
<http://www.computer-player.com>

**Canadian Computer
Wholesaler**
THE COMPUTER RESELLER'S HANDBOOK

canadian computer wholesaler web
<http://www.ccwmag.com>

and resources on the web on which you can get your site linked. Creating a resource or directory of industry related links on your site invites others to link to your site as well. One directory is not enough! What you want is many links to your site not just one link in a high traffic site. There are also cybermalls and directories which require a monthly fee for inclusion in their listings. For the cost of a quarter page ad in the Vancouver Sun or Province for one day you can be included in some of these directories for half a whole year!

Comprehensive Marketing Strategies

Finally, marketing approaches online need to be coordinated with your real world marketing. Cross promotion between your print advertising and web pages can draw people to your web pages and into your storefront. Publish your URL on your business cards and company literature. Creative radio and TV advertising can connect your on-line marketing with your other marketing approaches and provide excellent exposure and promotion.

What happened to Galaxy Communications? They approached a professional web publishing company to develop their pages and an internet marketing strategy. They created a web site which clearly presented the company

and its products and invited interested people to contact them. Within days of the first phase of their marketing strategy Galaxy was receiving daily hits on their pages. Within four months, the business generated through the web site had paid for the new computer system they installed! Galaxy Communications has had the opportunity to bid on several six figure contracts since their web initiative which they otherwise would never had even known about.

Internet marketing strategies can be simply a few announcements in newsgroups and submissions to search engines. They can also be much more comprehensive and creative in order to not only invite people to your web site but to keep them coming back. There are definite and tested ways of creating traffic at your companies site and traffic is what you need if you don't want to be frustrated with your first experience on the web.

So, you now have people contacting you, requesting information, wanting to purchase your product and services. Next month we'll look at conducting business on the web: How you can use the web to manage a virtual office. □

About the author: *JD Miller is the principal of Vancouver Internet Publishing and can be reached at je3d@van.com*



WEBLAB
DIGITAL PUBLISHING

SURF SKATE @ SNOWBOARD

Your **CORPORATE** presence on the **NET** is **ESSENTIAL**
for today's "Nintendo Crowd" youth Market

Over 10 Years Experience in Action Sports Marketing

Specialty Web Pages

- Snowboard Market
- Skateboard
- Surf
- Manufacturers
- Retailers
- Mailorder

spike@axionet.com
data phone fax 604-730-0021

NPSNET
BC's Premium Internet Service Provider

INTERNET ACCESS \$14 per month*

"internet access that makes sense"

Annual Membership
- includes 250 hrs \$168.00
- internet Starter Kit and setup fee included

Package Offerings
- one time setup \$39.95
- net-start 50 hrs \$34.95
- net-plus 500 hrs \$324.95

* Based on Annual Membership Subscription, Tax not included

Call now for account activation

Voice 272-2624
Toll-Free 1-800-319-8500
<http://www.npsnet.com>
info@npsnet.com

Vancouver Webpages
Net Access Not Required



FREE LINKS - FREE LISTINGS
<http://vancouver-webpages.com>
Tel: (604) 377-4796 Fax: (604) 270-8285

LYNX INTERNET

Only
\$20.00 / month *

Unlimited Access

28.8 kbps lines
SLIP and PPP dialups
Telnet
FTP
Usenet News
Web Pages
E-mail

No Hidden Charges
No Maintenance Fees
T1 Access to the World
Dedicated High Speed Servers

*First month FREE!
for Students ***

Call us today for our

Instant Account Activation !
Put your business on LYNX Internet

PHONE (604) 331-2511 FAX (604) 331-2522
<http://www.lynx.bc.ca> info@lynx.bc.ca

* \$25.00 one-time setup fee applies
** Offer expires November 30, 1995

VANCOUVER ISLAND

Business, lifestyle or retirement investment; (this has it all). High profile waterfront four level heritage building in good repair, plus Marina. Presently incorporates owners penthouse living accommodation. Fine dining restaurant, art gallery and workshop. (Marina has approximately 850 feet of moorage.) Opportunity for expansion of all facilities. \$850,000 - land and building. Fax: (604) 748-5855.

INCREASE YOUR WEB TRAFFIC!

- Do you need more traffic to your web site?
- Would you like MORE SALES!
- MAXIMIZE your Internet Exposure!
- GUARANTEED SATISFACTION!



If you have a web site but need more exposure, we'll list your company on over 50 directories and search engines on the NET! Call now for more info: 604-261-4560 or 1-800-689-3565!

INTRODUCTORY OFFER! ONLY \$49.95!!!

Email: caryc@direct.ca
<http://web.idirect.com/~cdrom>

Email + World Wide Web For Small Business

\$249 includes: Complete Installation and Setup Training at Your Location (groups of 1 to 5)

Beginners Welcome

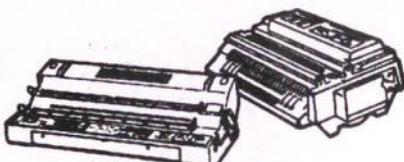
Call (604) 739-7425

Rob Hickling Consulting Ltd.

"Increasing Profitability Through Computer Technology"

MEGA Toner Cartridges

laser • copier • fax • etc.



Remanufactured Toner Cartridges.

- We service cartridges from Apple to Xerox
- RAM upgrades, accessories, networking
- Maintenance and Laser Repairs
- DISCOUNT toner for photocopiers
- Macintosh consulting and repairs
- Office equipment & computer cleaning

Laser Printers from Canon, HP, Lexmark and Xante call for Best Pricing.

Reduce waste,
Save money!

980-7197
990-0552 fax

satisfaction guaranteed
free pick-up / delivery

600 How-to Books Reports & Guides You Can Reprint & Sell

For Big Profits - on CD-ROM!

New Windows CD-ROM has full-texts & publishing rights to over 600 hottest selling titles, including "The Lazy Person's Secrets to Overnight Wealth!"

Only \$97, Fast delivery, Satisfaction guaranteed, 24-hrs: 1-800-272-5335, VISA, M/C welcome.

SEYMOUR ARM

Best two acres \$37,900, 15% down, owner will finance balance over 7 years at

Call Frances
(604) 521-7911
Fax 521-7944

1.65 acre apartment designated site in Port Coquitlam. Across street from new Burleigh Gardens development. Borders Coquitlam River green belt. Close to new Court Complex, Commuter Train & Shopping Centres.

Asking \$1.925 million for this clear title property. For sale by owner: Call Frances at (604) 521-7911

PORTABLE BOLTS

The whole business fits in one room. Stock includes several thousand units ready to ship, plus components for more. Purse-sized, the multi purpose in-door security lock is easy to use and offers safety at home or when travelling. Other interests force sale at \$6,500. All reasonable offers considered.

Contact: John O. Madsen, CA
604 521-7911 Fax 604 521-7944

UNCENSORED!

The hottest adult BBS brings you XXX quality with no compromises.

XXX GIF's!

Featuring all the GIF's you ever wanted (over 10 GB), loads of original content, and more, much more. Plus: hot chat with people from all over the world.

ALL FREE!

And best of all: IT'S FREE! Absolutely no charges, no credit card needed, just dial and download immediately.

SIMPLY DIAL:
011 852 172 94 919

Over 18's only,
long distance
charges apply

Erotica East

DTP Designer Wanted

Computer Player is seeking production assistant. PC Photoshop, Pagemaker, CorelDraw. Fax your resume to (604) 739-3589 No phone call please.

BMP Production

最佳紀念禮品

Special!

家庭錄影帶加
中文字幕和音樂

\$79 起

We add Chinese on your tape
More than 50 Chinese typefaces and effects.

中文影視製作

五十多種中文字體可以錄製到錄影帶上

- Customized video production
- Computer animation
- Frame-accurate transfer
- English/Chinese titling

(604) 889-7897

BUSINESS OPPORTUNITIES EXCHANGE

Your Key to Opportunity®

Allows like-minded people to meet in an informal setting dedicated to business only. Our breakfast meetings, held at New Westminster's Caribbean Cafe are open to both BOE members & non-members.

Cost \$16 Pre-registered \$10
Membership \$65 two years

Phone (604) 521-7911
Fax (604) 521-7944
ET Voicemail 1-804-978-6350



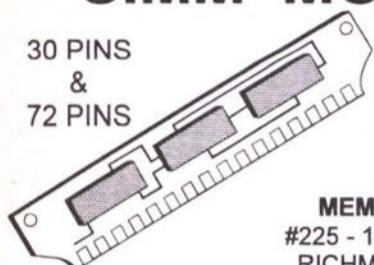
Computer Consultant

Hardware and Software Upgrade
Troubleshooting and repair
On site services
Quick Start Instruction
Affordable rate
Sales and Support

Call Larry @ 432-1177

SIMM MODULE

30 PINS
&
72 PINS
1, 2, 4, 8, 16
& 32 MB



MEMORY HOUSE INC.
#225 - 10711 CAMBIE ROAD
RICHMOND B.C. V6X 3G5

Phone: 821-1178 Fax: 821-1107

Get Paid To Be On-Line!
上國際網路 又可以搵錢

\$INTERNETS

免費磁碟教你如何去做 請電
Free demo disc shows you how call:
Global Online: 1-604-978-6904 Toll Free
Email: global@direct.ca

For
advertising
in
Computer
Player,
please
call
(604)
739-8266

warren Denny
DIGITAL IMAGING

Desk Top Publishing
Photo Manipulation
Photo Restoration

We Will Output Your Slide Presentations

604-737-2133

We Print to Continuous Tone Film
35 mm • 4 x 5 - Slides and Negatives
FAX 604-737-7311 • Email denny@infomatch.com

media.
THE
communications

**MULTIMEDIA
ALTERNATIVES**

> Corporate / Sales Presentations
< Graphic & Digital Design Service
> CD Rom Development
< Digital Brochures
> Interactive Ads
< Kiosks

ph: 687-1268
#208, 1008 Homer Street, VAN, V6B 2X1
email: themedia@uniserve.com

HOW-TO
BOOKLETS
call
254-5940

DESKTOP PUBLISHING

Corel VENTURA
Corel DRAW
Corel PHOTO-PAINT
Harvard Graphics

For training and production **medea**

Step-by-step instructions
Projects, tips and tricks
Ideal for training or
self-directed learning

medea

ABLE COMPUTER RENTALS LTD.



Ask us about
**RENT TO OWN
or LEASE**

We Rent IBM Compatibles, 286, 386,
486 & Most Brands of Printers
Tel: (604) 521-6904 Fax: 525-4060
440 CANFOR AVENUE, NEW WESTMINSTER, B.C. V3L 3C9

**CD ROM
Sales!**

For catalogue call
(604) 739-6588

Available after Aug. 24 1995

**COMPUTER
TROUBLES ?**

SHARP NOTEBOOKS & PALMTOPS SPECIALISTS
FACTORY TRAINED TECHNICIANS

We do MORE than just hardware repair,
we are a full service organization involved in
all facets of the computer industry since 1977

- WE ARE AFFORDABLE
- WE ARE FAST
- WE ARE EXPERTS
- WE DO IT RIGHT

"Your place or ours!"

SHARP Authorized Service Centre



110-3320 Jacombs Rd. Richmond, B.C.

(604) 278-0783

SPARKLE 中英電腦

Bilingual System (English/Chinese)

Custom Software Design / Programming / Support
軟件服務 程式編寫 文書處理
POS, Inventory, Bar Code, Mission Critical Statistics,
I/E Trading, Internal MIS... Bilingual Documentation ...

dBase, FoxPro, Clipper, VO, DOS/Windows...
Chinese Systems : TwinBridge V3.3, KuoChiao V6.2

Free Initial Consultation

Tel/Fax: 435-2338 (Mon/Wed/Sat 9:00am-9:00pm)

COMPUTING

Your Computer Department

電腦維修 軟硬精通 電腦網路

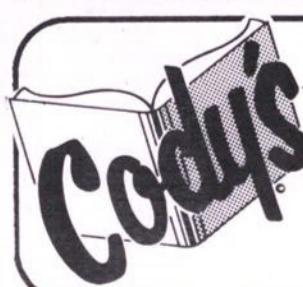
免費估價 中英服務 品質保證

SERVICE REPAIR MAINTENANCE



"No solution - No charge" Guarantee!

**Tel: 266-1124 Fax: 263-9535
7979 Granville St. Vancouver**



The Place for Computer Books

Westwood Mall - 3000 Lougheed Hwy, Poco 464-5515
Champlain Mall - 3200 E54 Ave., Vancouver 437-5553

電腦書籍專門店

"The bookseller with experience and knowledge"

隆重介紹新版

漢文道 Version 2.0

- ◆ 中文文字直接進入CorelDRAW 5.0操作自如，變化萬端。
- ◆ 基本版價格優惠，物超所值，可輕易升級至標準版或專業版。
- ◆ 簡體字，繁體字，任君選擇。
- ◆ 拼音輸入，倉頡輸入，相輔相成。
- ◆ 在 Internet 上直接輸入中文與接收中文為您打開一個全新的中文世界！

好消息

Chinese Language

最易學習

- 提供多種易學易寫中文輸入

漢語拼音 漢語部首 粵語拼音
連續拼音 英語單詞 臺灣注音

最多功能

- 包括下列各種傳統的功能

下裏巴人 新天馬 漢音 雙橋

- 提供理想中文學習環境

詞組選擇 書信例文庫
造字工具 香港常用字

漢文道

HanWenDao 中文視窗系統



雅靈娜公司中文榮譽產品—<會計樂>
全盤中文顯示，打印中/英文表格。
是你生意的最好幫手。

即將
推出

各地代理商 Vancouver (B.C.)

Computer Max (604) 731-2828
Wisecom Group (604) 327-8567
Anovation Software (604) 276-8898
InfoWave (604) 273-1368
Micro Energy Computer (Exclusive) (403) 265-8195
Tomigi International Inc. (416) 299-8326
China Books & Periodicals Inc. (415) 282-2994
TransLanguage 1-800-308-8883
A Plus A Computer Inc. (212) 226-6578
MicroWise (212) 219-8988
Reptron Computer Ltd. (恒創電腦) (852) 798-6623
Jos Micro Tech, Jardine (怡和商業) (852) 2565-2011

歡迎洽詢，請電 (604) 874-0227

SINOSOFT® SYSTEMS LTD.

Fax: (604) 874-0167

193 West 6th Avenue,
Vancouver B.C. Canada V5Y 1K3

到使用視窗 95 的時候了

微軟公司作了大力推廣宣傳的 Windows 95 終於在 8 月 24 日登場了。在此以前已經有專業和義務的測試工作者對它作了不少測定報告。認為 Windows 95 的性能是良好、穩定的。所以上市以來銷售情況良好。現在不少原來對此事並不關心的用戶，也受到了影響，想了解一下，如果把 Windows 3.1 升級到 Windows 95 將會取得什麼樣的效果；為此需要對硬體和軟體作些什麼變動？我們在這裡作一些簡短的介紹，提供有這種要求的讀者作參考：

1. Windows 95 的特點：它是 32 位元的操作系統，真正能執行多項任務，例如正在卸載 (Download) 檔案時，同時在編輯一個檔案，還可以對磁碟進行格式化，減少了等待的時間。

特別明顯的好處是：

A. 運行速度快了；以前經常發生的資源不夠，打開了三、四個應用軟體時就會發生資源告急的情況不存在了；當記憶體為 16MB 時，不需要在硬碟建立 Swapfile，運行時較少進入硬碟，速度自然就提高了。

B. 檔案名可以超過 DOS 的規定，不限制在 8 個字和三個字的尾綴而是 255 個字以內；

C. 即插即用 (Plug and Play，縮寫為 PnP)。當用戶需要在電腦上添置一台光碟機或數據機時該怎麼辦，那必須查清它是否需要使用和使用哪一種界面卡，它需要佔用哪些資源，例如中斷要求 (IRQ)、DMA 通道及輸入/輸出 (I/O) 位址等。萬一多個設備爭用某個資源時該怎麼辦？以往就要調整界面卡上的選擇裝置（一般為組合開關及跳線器）。最後還要正確地向操作系統載入驅動程式。因此許多用戶們對這一類工作望而生畏，不敢碰。現在的所謂“即插即用”功能就是設計出讓電腦系統能夠協調系統資源和周邊設備間的關係，進而使周邊與電腦的其他部分溝通。改變了前述必須掌握一定專業知識才能做的麻煩工作。也就是在 PnP 環境下，系統會依據周邊設備或其界面卡分配資源，並且能根據具體情況自動作調整。Windows 95 宣稱他們可以做得更好。它會根據新的界面卡分配資源後，正確地載入其所需要的驅動程式。

Windows 95 . ASIA . Chinese . Korea

中日文電腦遊戲世界

<會員徵募中>

- 遊戲示範：三只眼，超未來少女，三國志英杰傳，魔界之泉，特勤機甲隊 2，新光榮遊戲
- 遊戲雜誌：軟體世界，電腦玩家
- 工具軟體：遊戲破解工具箱，遊戲修改大師
- 電腦休閒：象棋 for Windows，圍棋

586 電腦系統 -- 電腦課程

- Pentium 133MHz -- \$780.00
- ACER (宏碁電腦) 更新硬體
- 電腦 Internet / BBS 通訊器

周日電腦速成班

- 電腦 Windows 操作班
- 中文電腦班
- Internet/中文 internet 特別班

- MS Windows 95 Chinese (搶鮮版陸續供應)
- Windows 95 亞洲版：中，日韓文全套餐。
- Twinbridge for Windows (本月特價 \$ 249.00)
- New Edit, NJ Star for Win 95
- Windows 95 中文手寫筆 (\$285.00)
- 中文字庫 36 套 (\$360.00)
- 遠東英漢百科大字 (CD/\$95.00)
- 唐詩三百首 (CD/\$42.00)
- 國語學習光碟 (CD/\$28.00)
- 故宮文物 5000 年 (CD/\$78.00)
- 日文有聲學習軟件
- 電腦鐵嘴直斷 for Windows 95
- 象棋，圍棋，五子棋，跳棋系列
- 數學大補貼 (由小學到大學)

Learning Chinese on CD-ROM

- Complete 170 Lessons
- English Dictionary
- Simplify and Traditional Characters
- Character Writing Tutor
- Ping Ying Tutor
- Twinbridge Special \$ 249.00
- MS Windows Chinese
- Chinese Editor for Windows 95
- Vietnamese, Korea, Japanese Editor
- Learning Chinese on CD-ROM Basic Version \$ 28.00

MultiMedia Chinese Software Supply Centre 軟體銀行・排版系統

BIS 恒碁中文電腦公司
BIS Information Systems

#203-124 E. Pender Street, Vancouver B.C. V6A 1T3

Tel: (604) 688-8916/930-9108

Fax: (604) 688-8916

Email: Waynelee@Direct.ca

這個功能實際至少要在三個方面都符合 PnP 規格：它們分別是系統的 BIOS、操作系統和外加的周邊設備。符合 PnP 的 BIOS 已經在一年前就作為多數新的系統的標準配置，第一個符合 PnP 要求的周邊設備界面卡也在一年多以前問世，現在 Windows 95 的發行就使這個人們向往已久的 PnP 功能終於能實現了。根據一些測試報告所說的是：如果三者均符合 PnP 要求的話，確實是起到了即插即用的效果；但是當插上的是傳統的界面卡時，就並不完全能成功。不過畢竟比原來的情況簡便多了。隨著生產廠商不斷改善界面卡，系統與 PnP 的相容性，在系統上添裝設備也必然會越來越簡便以至真的實現 PnP。

D. 視窗的分辨率隨時可以轉換(Resolution Switching)：用滑鼠右鍵擊桌面，選擇 Properties 及 Setting 就可以在不重新起動的情況下轉換分辨率和全彩色以內的色彩數。如果想變換色彩的濃度則要重新起動 Windows。Windows 95 有三十多種新的特色，不在這裡一一介紹。

2. 硬件要求：

A. 最好是採用 Pentium 75-100 以上的 CPU。

B. MS 曾提到過，32 位元的視窗應用軟體將會比現在的 16 位元視窗的應用軟體需要多佔用 25% 至 50% 的記憶體。現在它能執行多個任務，就更需要有充分多的記憶體，所以應該考慮到採用不少於 16MB。

C. 硬碟：Windows 95 需要佔用的硬碟空間，對於新安裝的用戶，最低需要是 30MB，安裝全部功能則是 65MB；假如是覆蓋原來的 Windows 3.1 的方式，則最低要增加 23.5MB，裝足的要增加 48MB。對於使用 16MB 以上的記憶體時，以前需佔用硬碟約 20MB 空間的 Swapfile 可能已經不需要了。所以為 Windows 95 多佔用的空間大約為 30MB。用戶的硬碟如果不夠大，由於 32 位元的應用軟體都比較龐大，以後將會發現硬碟的空間很緊張。因此，有條件能換用至少為 850MB 的硬碟才比較合適。

3. 如果仍舊使用 16 位元的軟體將會怎樣：一般的 16 位元應用軟體都還能運行，而一些 16 位元的清除病毒軟體、加強檔案管理的軟體（例如 Norton Desktop）極可能無法執行的。有測試報告提到，Adobe Illustrator 4.0 視窗版及 Tropical Publishing 的 999+ TrueType 字型視窗版在 Windows 95 中無法啓動。

如果用了 16MB 記憶體，那麼即使仍舊使用 16 位元的應用軟體速度也會有所改善。減少記憶體，速度會降低，甚至比以前使用 Windows 3.1 時慢一些。

4. Norton 公司及時地發行了 32 位元的防毒軟體 Norton AntiVirus 和有名的診斷及修復工具集合 Norton Utilities。前者除了掃描及清除病毒以外，還有使系統產生免疫力的功能。後者除了仍舊有強大的診斷和修復功能，其 Disk Doctor 和 System Doctor 還可以常駐值勤，定期掃描和對硬碟重整，另外還帶有兩張可以在 16 位元系統運行的應急救援程式 Rescue 碟，其 Startup 具有診斷、修復功能；Turnup 則可以在安裝 Windows 95 以前檢測系統資源和周邊設備界面及優化硬碟，使安裝工作能更加順利。

5. 安裝以前，用戶為了使自己格外地放心，除了對重要的文件做備份以外，還可以利用 MS 替用戶留下的退路，在使用後感到不合意時，可以恢復到原來的狀態。因此在安裝 Windows 95 時，它會詢問用戶是把原來的 Windows 3.1 覆蓋掉，還是希望兩者並存。如果選擇前者，它只將 Program.grp 和 Win.ini 等文件保存下來；選擇後者則可以替 Windows 95 另開一個目錄，讓兩者都能運行。這樣，用戶可以放心地使用一陣子，當某一個 16 位元的應用軟體在 Windows 95 上運行不好時還可以轉到 Windows 3.1 去執行。如果一切都很順利，就可以在一段時間以後撤掉 Windows 3.1。要是對 Windows 9.5 不滿意，那麼它能讓用戶恢復到原來的 Windows 3.1 狀態。

Iso-Soft Technology Market
240-167 W. 2nd Ave., Vancouver, B.C.
Tel: (604) 879-1817 Fax: (604) 879-1875

Chinese Software
禁忌
超未來少女
逆王
獸鄉の守護者
炎龍騎士團 2
中國
美少女特勤組
鐵甲旗艦
仙劍奇俠傳
特勤機甲隊 2
紅色的誘惑

6. Windows 95 還提供一個選擇，讓極個別的有這種要求的用戶在使用 Windows 95 時繼續采用 Windows 3.1 的界面。一般用戶大概不會有這樣的要求的。

7. 由於要讓某些 16 位元的軟體繼續能夠運行，Windows 95 只能犧牲一性能保留了部分 16 位元碼。因此，它還不是徹底的 32 位元操作系統。同樣地也保留了 DOS 的存在。

8. 它也有些不足之處，例如恢復誤刪(Undelete)，恢復錯誤的格式化(Unformat)功能沒有保留。它也沒有自己帶防毒的軟

體。16 位元的防毒軟體無法運行，但是 16 位元的病毒卻能入侵它。

對於作桌面排版、電腦輔助設計(CAD)等工作的用戶確實有必要選擇升級為 Windows 95 的行動。如果只是用電腦作輸入和編輯文件，做一般家庭的管理工作，以及低年級學生學習等用途的用戶，對於自己的電腦運行的速度並沒有感到明顯的不滿意，那麼暫時還不必急于作硬體和軟體升級。

TwinBridge MultiLingual Series

CHINESE Partner

雙橋
視窗中文系統

雙橋視窗中文
系統 4.0 版現已
隆重面世

雙橋視窗中文系統提供您在視窗環境上處理中文最簡便有力的用戶介面

您可以啟動雙橋中文系統，選擇您最喜歡的中文輸入法，配合英文視窗上的文書處理軟體來寫中文信件、報告等等。您可以用 Excel 建立中文格式的商業文書報告，還可以結合先進的繪圖軟體來繪製園遊會大型海報，美工平面設計圖案，或是標注中文的工程藍圖。此外，雙橋還提供簡易英翻中、單字節轉換器、造字功能及詞典管理等工具。雙橋視窗中文系統的靈活、兼容性，與數千種視窗軟體相容，讓您的構想無限延伸……

系統特色

- 中、日、韓漢字內碼 (CJK 20902) 核心
- 從十餘種輸入方法中，選擇個人最適用的輸入法，獨創最新超級中文拼音、注音輸入方法
- 輕鬆自如的轉換中文內碼，隨心所欲的變換繁、簡體中文字
- 智慧型聯想功能，用詞造字宛如神助/四聲語調功能，縮短輸入時間
- 短語輸入可同時輸入長達 64 字/即時加詞功能讓您隨時擴充詞典容量
- 常用字詞自動調整位置，方便選入
- 可任意添加 True Type 中文字體
- 字元對應表易於檢索、查字
- 兼容 OS/2 Warp 及 PowerPC Windows mode，帶領您進入全新的中文視窗領域



主要工具程式

字典管理可隨需要修改、增加、刪除字或詞於任何輸入法的詞典

圖形轉換器將中文字處理成視窗圖形的方式以用於圖形軟體中

單字節轉換器將中文字轉換為單字節來支援不接受雙字節的硬體或軟體和做特殊圖形效果處理
造字功能首創利用現有字的部首拼排組合造字



加拿大總代理：



CompuCanada Inc.

加拿大電腦中心

地址：2940 Main 街 (14th Ave. 交界) 二樓，200 室

電話：872-6066 傳真：872-0288

系統功能

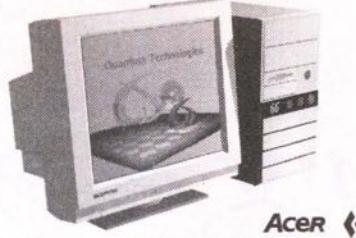
- 支援各種網路系統及 Windows for Workgroups
- 支援各種顯示器及 Windows 所支援的主要印表機
- 支援 Windows 95 及 C-Windows 3.1 版本的所有功能
- 開放介面可連接其他中文輸入法和手寫系統
- 創造各式各樣形態美妙的中文圖形字體，供美工繪圖之用
- 各種輸入法之鍵盤圖可顯示於熒幕上，並可放大、縮小及移動
- 支援多種精緻美觀的簡、繁體向量及真實體字集供選擇，字體大小可隨系統變化
- 兩萬餘字中文字庫和五萬多個二、三、四字詞組（用戶可隨意修改、調整字庫內之字及詞組）
- 英漢詞典超過四萬字（用戶可隨意修改、調整詞典內容）
- 自動加格，配合應用軟體自動轉折



AcerOpen Pentium 75 \$1929

Acer Pentium 75 Open System
8 MB RAM, 256k Cache
Intel Triton Plug 'n Play Chipset
850 MB Enhanced IDE Hard Drive
16550 Serial & Enhanced Parallel
Sceptre 14" 1024x768 non-interlaced 0.28dp
ET4000 1MB PCI Video Accelerator
NMB Novell Certified Keyboard
CSA Approved Minitower
1.44MB Floppy Drive
MS Series II Mouse
Windows 95 or DOS & Windows
Super Shareware Bundle

Leasing Available



SCEPTRE®

Authorized Dealer

Sceptre Monitors

- 3 Year, Over-Counter Warranty
- Flat, Low-Radiation on 15", 17", 21" models
- Low Radiation (EPA/MPR II)

14" CE-61NGL, 1024x768, 0.28dp
15" CC-615GL2, 1024x768, 0.28dp
15" CC-615GL1, 1280x1024, 0.28dp
17" CC-617GL, 1280x1024, 0.28dp
17" CC-617GL, 1280x1024, 0.26dp
21" CS-621, 1600x1200, 0.28dp
11.4" LCD, CD-1111S, 800x600 DualScan
10.4" LCD, CD-1111T, 640x480 Active

Sceptre Soundx Notebooks

- Integrated SoundBlaster on most models
- Integrated Trackball or Glidepoint
- S2000 features removable floppy with options

TS37 SX/25 Mono, 4MB RAM/260MB
TS37 SX/33 DualScan, 4MB/260MB
S1000 DX/266 DualScan, 4MB/340MB
S1000 DX/4/100 DualScan, 8MB/540MB
S2000 DX/4/100 DualScan, 8MB/540MB
S3000 P/75 DualScan, 8MB/540MB
S3000 P/90 DualScan, 8MB/540MB
S3000 P/90 Active, 8MB/540MB

Genesis VP

- Pentium/90 Workstation
- Asus TP4XE Triton, Plug 'n Play
- 16MB System RAM, 256k Cache
- Pipelined Burst SRAM socket
- 1GB Enhanced IDE Hard Drive
- ATI Mach64 or Stealth Video 2MB
- NMB Novell Certified Keyboard
- Genesis Tower Case
- Sliding Doors, 2nd Fan Optional
- 1.44MB Floppy, MS Mouse II
- Windows 95 or DOS/Windows

\$2398

Leasing Available

Genesis VX

- Pentium/90 Workstation
- Asus TP4XE Triton, Plug 'n Play
- 16MB EDO System RAM, 256k cch
- Pipelined Burst SRAM socket
- 1GB Enhanced IDE Hard Drive
- ATI Graphics Pro Turbo 2MB VRAM
- NMB Novell Certified Keyboard
- Genesis Tower Case
- Sliding Doors, 2nd Fan Optional
- 1.44MB Floppy, MS Mouse II
- Windows 95 or DOS/Windows

\$2648

Leasing Available

GENESIS

graphic station

Triton Chipset

Engineered around Asus' Triton chipset board.

Premium Video

Available options include ATI, Diamond, and Matrox VRAM

Plug 'n Play

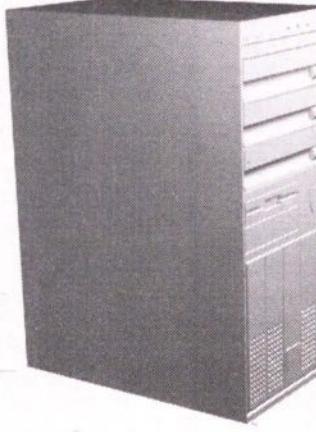
Plug 'n Play Flash BIOS ensures compatibility & ease of use.

Genesis Case

Dual sliding doors and two fans in a stylish, power case.

3 Year Warranty

A 3-year limited warranty, with a next-business day guarantee.



System Components

Mainboards

- 486DX2/66 VLB Complete Upgrade Kit \$ 229
- Mixed (30-pin & 72-pin) SIMM sockets
- Acer AP4 486DX4/100 PCI, IDE/IO 339
- Acer AP5C Pentium 75-133 PCI, Triton 299
- Acer AP5C & Pentium 75 575
- Acer AP5C & Pentium 90 695
- Acer Pipelined Burst SRAM upgrade 129
- Asus P55SP4 P/75-167, takes 1 SIMMs 369
- Asus P55TP4 Pentium 75-167 PCI Triton 369
- Asus P55TP4 & Pentium 75 645
- Asus P55TP4 & Pentium 90 765
- Asus P55TP4 & Pentium 100 865
- Asus P55TP4 & Pentium 120 1139
- Asus P55TP4 & Pentium 133 1339
- Asus TP4 Pipelined Burst SRAM upgr 1279
- Asus ENP4 EISA/PCI & 2xPentium 90 1599

Hard Drives

- Fujitsu 540MB, Mode 3 \$ 229
- Seagate 540MB, Mode 4 239
- Maxtor 850MB, Mode 3 299
- Seagate 850MB, Mode 4 319
- Samsung 1.1GB, Mode 4 339
- Quantum 1.1GB, Mode 3 349
- Quantum 1.1GB Fast SCSI-2 549
- Quantum 2.1GB Capella 1059
- Quantum 4.0GB Grand Prix 1659
- Seagate 4.0GB Hawk 1629
- Micropolis 9.0GB Scorpio 4199
- Legacy External SCSI case 179
- Adaptec 2940 PCI SCSI card 315
- Adaptec 2950 PCI SCSI kit 375
- Adaptec 3940 PCI SCSI kit 589
- Adaptec 3985 RAID 5,1,0,0/1 1059

Multimedia

- SoundBlaster16 Vibra \$ 109
- SoundBlaster32 239
- SoundBlaster AWE32 PnP 359
- Acer 4xCD-ROM, IDE 219
- Toshiba 4xCD-ROM, IDE 239
- Panasonic 2xCD-ROM, SB 89
- Panasonic 4xCD-ROM, IDE 239
- Panasonic 4xCD-ROM, SCSI 339
- DoubleSpd Kit (Pan/SB16/Spk) 209
- QuadSpd Kit (Acer/SB16/Spk) 329
- Cirrus Logic 14.4 Voice/Fax/Data \$ 99
- Zoltrix Internal 28.8 v.34 199
- Supra Express 28.8, internal 239
- Sportster 14.4, int 119
- Sportster 28.8vi voice, callerID, int 309

Network & Connectivity

- Windows NT 3.51 Workstation \$ 395
- Windows NT 3.51 Wkstn Upg 125
- Windows NT 3.51 Server 875
- Windows NT 3.51 Resource Kit 185
- Lantastic AI 6.0 DOS/Win 105
- Netware 3.12/4.1 CD, 5 user 945
- Netware 3.12/4.1 CD, 10 user 2295
- GVC NE2000 BNC or 10/T 62
- GVC 8-port 10BaseT hub 249
- 3COM 3C509 ISA BNC or TP 145
- 3COM 3C590 PCI BNC or TP 255
- 3COM LinkBuilder-12 TP hub 299
- Novell NE2000+ BNC or 10/T 125
- Novell NE3300+ EISA Combo 299
- Novell NE5500+ PCI Combo 235
- Novell EH1200 12-port hub 325
- Intel EtherExpress 10/100 PCI 345

Exotic Memory

- Generic
SIMM, SRAM, DRAM, VRAM, PCMCIA
Parity, Extended Data Out (EDO)

- Systems & Notebooks
AST, IBM, Compaq, NEC, TI, Toshiba,
Mac, PowerMac, Silicon Graphics, NEC

- Printers
HP, Brother, Canon, Epson, Lexmark, NEC
- We also exchange and upgrade memory,
so call for details and current pricing!

NO SURCHARGE



Graphics Emporium

Video Accelerators

- ET4000 1MB \$ 139
- ATI Graphics Xpression, 1MB 199
- ATI Graphics Xpression, 2MB 269
- ATI Graphics Pro Turbo, 2MB 429
- ATI Graphics Pro Turbo, 4MB 659
- Stealth64 Video 2120XL, 1MB 199
- Stealth64 Video 2120XL, 2MB 269
- Stealth64 Video 3240XL, 2MB 429
- Stealth64 Video 3400XL, 4MB 669
- Matrox Millenium 2MB, max 6MB 455
- Matrox Millenium 4MB, max 8MB 665

Video Capture & Output

- Creative VideoBlaster SE-100 \$ 339
- Creative ShareVision PC300 849
- AverKey, VGA to NTSC ext 249
- AverKey II, Video & Audio 349
- AverKey III, Genlock 535
- AverPro, Video in & out 789
- Miro D1, in & out, 24-bit 320x200 449
- Miro DC1, in & out, 1600x1200 889
- Perception Video Recorder 2699
- PVR Capture Daughterboard 1345
- Targa 2000 60fps 20MB RAM 8350

Imaging Software

- Calligari Truespace 2.0 \$ 795
- Elastic Reality 575
- CorelDraw 6.0 upgrade 335
- Autodesk 3D Studio v4 3795
- Autodesk Animator Studio 825
- Macromedia Director 1495
- Razor Pro 945
- Brother HL641 535
- Brother HL660 785
- Brother HL1240 1695

Quantum Technologies

Building Unique Solutions for Unique Customers

#125, 3751 Jacombs Road, Richmond, BC
9:30-5:00 Monday to Friday, 11:00-4:00 Saturday

All logos & trademarks are registered trademarks of their respective companies. Prices and availability subject to change without notice.

Greater Vancouver (604) 244-5952
Fax Requests (604) 244-5953
Canada & USA (800) 929-8161

Computer Player

電腦世界

Publisher/Editor

Liqin Chen

Associate Editor

Alan Zisman

Mac Editor

Chow Yen Chong

Business Associate Editor

John Madsen

Marketing Director

Jane L. Ding

Contributing Writers

Jim Chow

Swee-Sim Tan

Rick McLaughlin

J.D. Miller

David Aderson

John Hamm

Lijian Chen

Yves Millette

Richard K. Acton

Advertising Sales

Jamie Leighton

Li Ding

Randy Chaster

Production Manager

Kent Chen

Sherly Ho

Distribution

MediaNet Distribution

Computer Player is a monthly bilingual computer magazine published by Our Computer Ltd.

The content of Computer Player is subject to copyright. Material and advertising designed by Computer Player in this publication may not be reproduced in any form without permission. All rights reserved. The opinions expressed in articles are not necessarily those of the publisher.

Computer Player welcomes your suggestions, comments and ideas. Disagree with a column? Have a question about a feature? Heard an interesting rumor? Got a new product? Share it with us by phone, mail, e-mail to fax at the numbers or address below:

Our Computer Player Ltd.

900-1788 West Broadway

Vancouver B.C. Canada V6J 1Y1

Phone: (604) 739-8266

Fax: (604) 739-3589

Internet: computer_player@mindlink.bc.ca

CompuServe: 76640,1756

BBS: MindLink! (604) 528-3500 (Log on with the name "Computer Player Guest")

Subscription applications and notices of changes of address must be made in writing to above address.

Printed in Canada ISSN 1188-9462

Canada Post Canadian Publications

Mail Sales Product Agreement No.

170 437

Postage Paid at Vancouver B.C.

Subscriptions

To have 12 issues of Computer Player mailed directly to your home or office, please send a cheque or money order for \$25.00 to Computer Player Ltd.; U.S. subscriptions please send \$45.00 in US funds; Overseas please send \$60.00 Canadian.

This is IT, Vancouver!

Everything IT takes to keep your organization competitive...

Over 250 of the world's leading computer and communications companies!

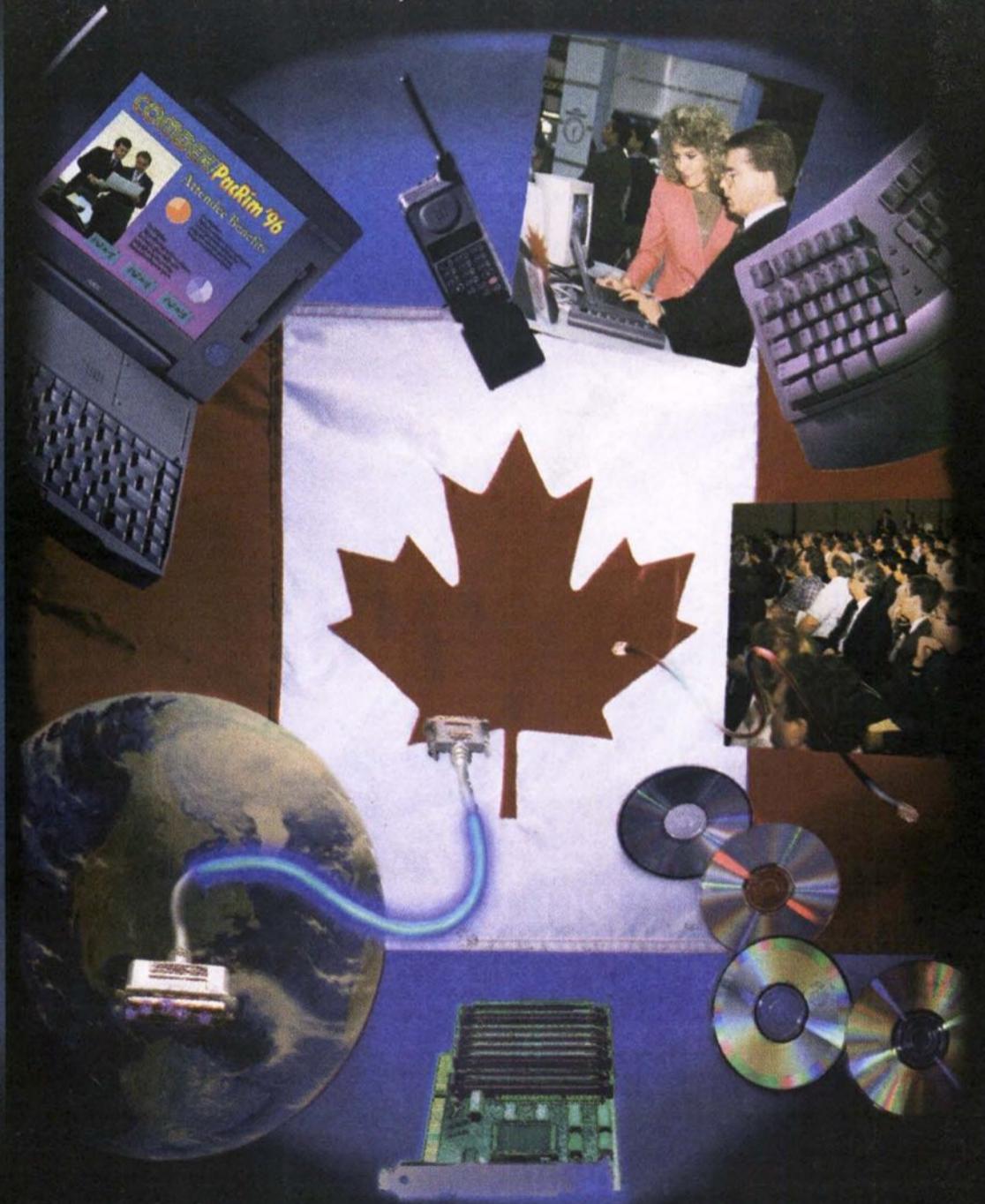
Thousands of product solutions — Windows 95, Alpha and PowerPC chips, Client/Server, Business Telephony, Mobile and Wireless Computing, and more!

Three NEW Dedicated Showcases — Communications, Multimedia, and COMDEX I-Way — The On-Line Services Showcase!

Live, hands-on Internet demonstrations — featured at the Internet Experience, a part of the COMDEX I-Way!

The world's #1 IT educational conference delivering the knowledge and solutions your organization needs to get ahead and stay ahead!

Two major keynotes on the latest IT trends and issues affecting the industry...and you!



**Register
Today!**

LOG ON! Registration and Updated Information **ONLINE** URL: <http://www.comdex.com/>

Go on-line to register or for the latest information on exhibiting companies, conference sessions and speakers, hotel and travel savings, and more! Or register by fax! Call 617-449-5554, enter code 07, and have your fax number ready — we'll fax your registration form within 24 hours!

COMDEX®/PacRim '96

Serving the Information Technology Professionals of Canada and the Pacific Northwest

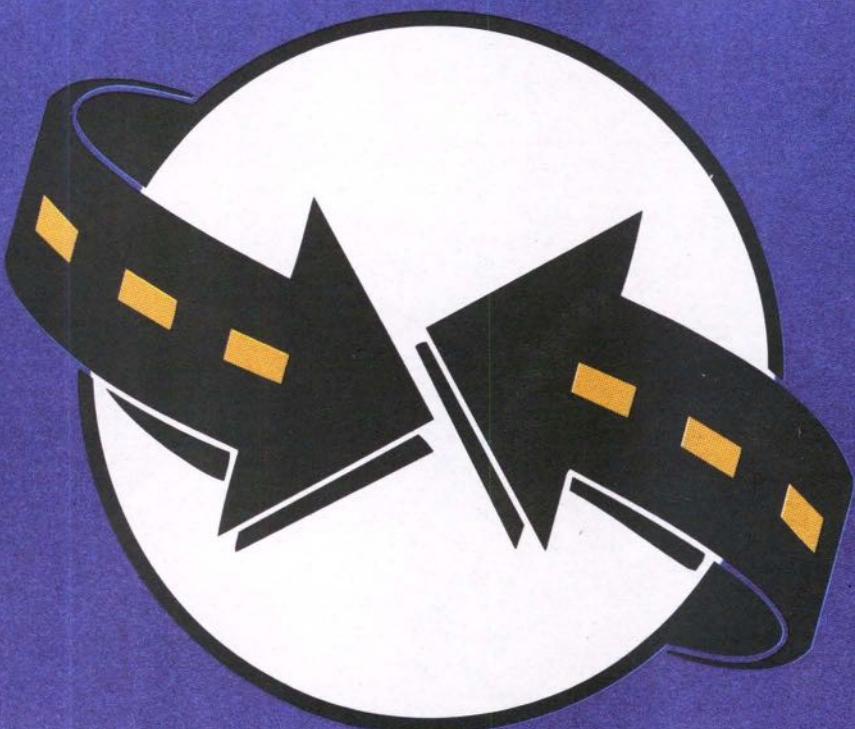
January 16-18, 1996 • Vancouver Trade & Convention Centre • Vancouver, British Columbia

My

InternetTM

ACCESS KIT

Your
Complete
Package
to
Full
Internet
Access



PACKAGE INCLUDES:

- Full Flat Rate Internet Access
- One time start-up fee included
- First month of access included
- Free connection software

WINDOWS[®] COMPATIBLE

AVAILABLE NOW AT:

**LONDON
DRUGS**

CAMPUS
COMPUTERS

AND OTHER LEADING COMPUTER RETAILERS.